



## Brake Dynamometer Test Report

**Link Test Report #:** 112305-3-1  
**Test Description:** MERITOR DRIVE SAE J2686 PART A  
**Purpose of Test:** SAE J2686 PART A  
**Customer Reference:**  
**Program #:** UV100032  
**Platform:** MERITOR DRIVE  
**Lining Material:** MERITOR MA2301  
**Test Date:** 11/14/25 - 11/21/25

### Requested By:

TBP Auto / AN Thai Auto Parts  
Thomas Heller  
288 Tran Thai Tong Street  
Tien Phong Ward  
Thai Binh City, THAI BINH PROVINCE  
Viet Nam

### Tested By:

Link Engineering Company  
Dearborn Technical Center  
401 Southfield Rd  
Dearborn, MI 48120  
[www.linkeng.com](http://www.linkeng.com)  
(313) 625-4000



## MERITOR DRIVE SAE J2686 PART A

### Test Information

|                                     |                               |
|-------------------------------------|-------------------------------|
| Customer Name                       | TBP Auto / AN Thai Auto Parts |
| Requestor                           | Thomas Heller                 |
| Test Procedure                      | SAE J2686 PART A              |
| Program Number                      | UV100032                      |
| Test Coordinator                    | Jeff Lesko                    |
| Technician                          | M H                           |
| Dynamometer                         | D5025                         |
| Parts received, start and end dates | 11/14/25 - 11/21/25           |
| Template Name and Version           | SAE J2686 Type A/B, 2.07      |
| Datalogger version                  | 4.01                          |

### Setup Details

|                        |               |
|------------------------|---------------|
| Fixture Identification | 99T027        |
| Fixture Design         | CV - Drive    |
| Drive adapter method   | Link Standard |

### Dynamometer Information

|                                                  |                                                                                                         |
|--------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| Rolling radius                                   | 20.80 inch                                                                                              |
| Gross Axle Weight                                | 23000.00 lb                                                                                             |
| Required Wheel Load                              | 11500.00 lb                                                                                             |
| Actual Wheel Load (Mounted + Simulated = Actual) | 11797.60 lb + -296.33 lb (Section 121) = 11501.27 lb                                                    |
| Required Inertia                                 | 1074.00 slug·ft <sup>2</sup>                                                                            |
| Actual Inertia (Mounted + Simulated = Actual)    | 1102.20 slug·ft <sup>2</sup> + -32.24 slug·ft <sup>2</sup> (Section 121) = 1069.96 slug·ft <sup>2</sup> |

### Brake Information

|                                           |                                          |
|-------------------------------------------|------------------------------------------|
| Brake Platform                            | MERITOR DRIVE                            |
| Brake Type                                | DRUM / AIR                               |
| Brake Size                                | 16.5 X 7                                 |
| Drum ID Number                            | 054.1640                                 |
| Drum Type                                 | CAST                                     |
| Drum Finish                               | NEW                                      |
| Caliper or Brake Hardware Part Number     | N/A                                      |
| Caliper or Brake Hardware Condition       | N/A                                      |
| Leading Lining ID                         | MERITOR MA2301                           |
| Leading Lining Comment                    | USE LEAD SHOE FROM TEST 112305-1-1       |
| Trailing Lining ID                        | MERITOR MA2301                           |
| Trailing Lining Comment                   | USE TRAIL SHOE FROM TEST 112305-1-1      |
| Orientation                               | Right                                    |
| Lining FMSI ID                            | 4707 / 4707                              |
| Air Chamber (Type/Size)                   | MGM / 30/30" LONG STROKE                 |
| Slack Adjuster (Type/Length/Manufacturer) | AUTOMATIC / 6.0 inch / HALDEX            |
| Vehicle and Axle Classification           | Bus, Truck & Tractor Drive with Antilock |

### Comments:

POST LOOP 5 PICTURES-NO VIEW #2 PICTURE

Authorized by: Jeff Lesko

Title: Test Engineer

Issue Date: 12/2/2025

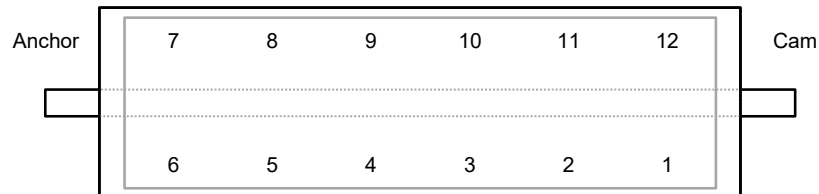
Data applicable to the materials tested and parameters agreed to by customer. Valid if signed by the Test Engineer. Uncertainty of measurement details are available upon request.

### Shoe Wear Summary

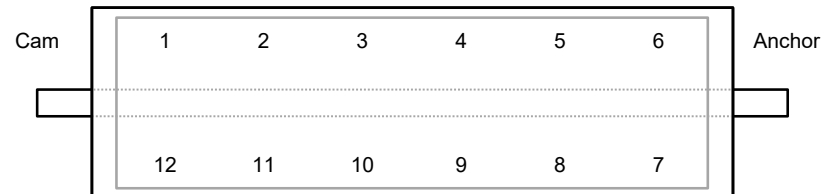
| Leading Shoe Thickness (inch) |       |       |       |       |       |       |       |       |       |       |       |       |       | Mass (gr) |
|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|
|                               | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 10    | 11    | 12    | Avg   |           |
| Initial                       | 0.894 | 0.975 | 0.966 | 0.919 | 0.825 | 0.666 | 0.667 | 0.837 | 0.928 | 0.976 | 0.975 | 0.890 | 0.877 | 7473      |
| Final                         | 0.838 | 0.880 | 0.858 | 0.815 | 0.736 | 0.617 | 0.635 | 0.754 | 0.821 | 0.859 | 0.871 | 0.828 | 0.793 | 7220      |
| Loss                          | 0.056 | 0.095 | 0.108 | 0.104 | 0.089 | 0.049 | 0.032 | 0.083 | 0.107 | 0.117 | 0.104 | 0.062 | 0.084 | 253       |

| Trailing Shoe Thickness (inch) |       |       |       |       |       |       |       |       |       |       |       |       |       | Mass (gr) |
|--------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|
|                                | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 10    | 11    | 12    | Avg   |           |
| Initial                        | 0.857 | 0.961 | 0.976 | 0.940 | 0.844 | 0.675 | 0.672 | 0.845 | 0.938 | 0.979 | 0.968 | 0.881 | 0.878 | 7487      |
| Final                          | 0.793 | 0.846 | 0.855 | 0.834 | 0.775 | 0.657 | 0.658 | 0.781 | 0.847 | 0.873 | 0.860 | 0.796 | 0.798 | 7243      |
| Loss                           | 0.064 | 0.115 | 0.121 | 0.106 | 0.069 | 0.018 | 0.014 | 0.064 | 0.091 | 0.106 | 0.108 | 0.085 | 0.080 | 244       |

Leading Shoe



Trailing Shoe



Images above show the Brake Shoes as viewed from the Friction Material Side.

Note: The images shown are for reference only and are not intended to be representative of the actual parts tested.

|                                                        |                  |  |                |                   |                               |
|--------------------------------------------------------|------------------|--|----------------|-------------------|-------------------------------|
| Test Description<br><br>MERITOR DRIVE SAE J2686 PART A | Drum             |  | 054.1640       | Air Chamber       | MGM / 30/30" LONG STROKE      |
|                                                        | Primary Lining   |  | MERITOR MA2301 | Slack Adjuster    | AUTOMATIC / 6.0 inch / HALDEX |
|                                                        | Secondary Lining |  | MERITOR MA2301 | Actual Inertia    | 1069.96 slug·ft <sup>2</sup>  |
|                                                        |                  |  |                | Actual Wheel Load | 11501.27 lb                   |
|                                                        |                  |  |                | Rolling Radius    | 20.80 inch                    |



Drum Wear Summary

| Drum Diameter (inch) |        |        |        |        |        |        |        | Mass<br>(lb) |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------------|
|                      | 1      | 2      | 3      | 4      | 5      | 6      | Avg    |              |
| Initial              | 16.488 | 16.487 | 16.487 | 16.488 | 16.487 | 16.487 | 16.487 | 104.72       |
| Final                | 16.487 | 16.488 | 16.487 | 16.488 | 16.487 | 16.488 | 16.488 | 104.60       |
| Loss                 | -0.001 | 0.001  | -      | -      | -      | 0.001  | 0.000  | 0.12         |

| MicroFinish (μinch) |    |   |    |   |    |   |
|---------------------|----|---|----|---|----|---|
|                     | 1  | 2 | 3  | 4 | 5  | 6 |
| Initial             | 36 | - | 35 | - | 37 | - |
| Final               | 25 | - | 34 | - | 44 | - |

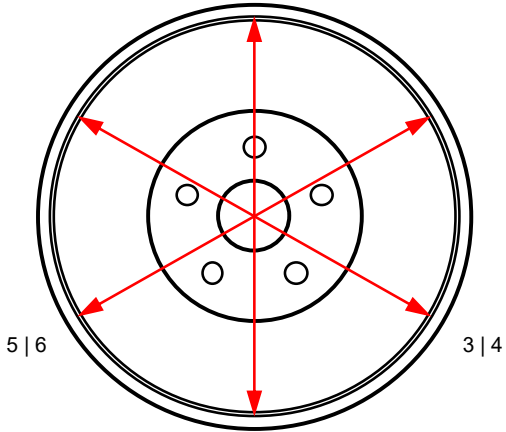
Brinell Hardness            223

Runout                        0.006 inch

Drum Measurement Points  
Inner | Outer  
Direction of Rotation



1 | 2



5 | 6

3 | 4

(Inside view of drum shown)

|                                                        |                  |                |          |                   |                               |
|--------------------------------------------------------|------------------|----------------|----------|-------------------|-------------------------------|
| Test Description<br><br>MERITOR DRIVE SAE J2686 PART A | Drum             |                | 054.1640 | Air Chamber       | MGM / 30/30" LONG STROKE      |
|                                                        | Primary Lining   | MERITOR MA2301 |          | Slack Adjuster    | AUTOMATIC / 6.0 inch / HALDEX |
|                                                        | Secondary Lining | MERITOR MA2301 |          | Actual Inertia    | 1069.96 slug-ft²              |
|                                                        |                  |                |          | Actual Wheel Load | 11501.27 lb                   |
|                                                        |                  |                |          | Rolling Radius    | 20.80 inch                    |



## Wear Comments

### Leading Shoe Wear Comments

|              | Stress Cracks | Structural Cracks | Grooves | Glazing | Pitting | Blisters | Edge Chipping | Lining Separation | Discoloration |
|--------------|---------------|-------------------|---------|---------|---------|----------|---------------|-------------------|---------------|
| Post Loop 5  | 5             | 5                 | 5       | 4       | 5       | 5        | 5             | 5                 | 4             |
| Post Loop 10 | 4             | 4                 | 4       | 4       | 5       | 5        | 5             | 5                 | 4             |
| Post Loop 15 | 4             | 4                 | 4       | 4       | 5       | 5        | 5             | 5                 | 4             |
| Post Loop 20 | 4             | 4                 | 4       | 4       | 5       | 5        | 5             | 5                 | 4             |
| Post Loop 25 | 4             | 4                 | 4       | 4       | 5       | 5        | 5             | 5                 | 4             |
| Post Loop 30 | 4             | 4                 | 4       | 4       | 5       | 5        | 5             | 5                 | 4             |
| Post Loop 35 | 4             | 4                 | 4       | 4       | 5       | 5        | 5             | 5                 | 4             |
| Post Loop 40 | 4             | 4                 | 4       | 4       | 5       | 5        | 5             | 5                 | 4             |
| Post Loop 45 | 4             | 4                 | 4       | 4       | 5       | 5        | 5             | 4                 | 4             |
| Final        | 4             | 3                 | 4       | 4       | 5       | 5        | 4             | 4                 | 4             |

### Rating Scale:

|        |       |          |       |              |
|--------|-------|----------|-------|--------------|
| 1      | 2     | 3        | 4     | 5            |
| Severe | Heavy | Moderate | Light | Not Observed |

### Test Description

MERITOR DRIVE SAE J2686 PART A

Drum

Primary Lining

Secondary Lining

054.1640

MERITOR MA2301

MERITOR MA2301

Air Chamber

Slack Adjuster

Actual Inertia

Actual Wheel Load

Rolling Radius

MGM / 30/30" LONG STROKE

AUTOMATIC / 6.0 inch / HALDEX

1069.96 slug-ft²

11501.27 lb

20.80 inch



## Wear Comments

### Trailing Shoe Wear Comments

|              | Stress Cracks | Structural Cracks | Grooves | Glazing | Pitting | Blisters | Edge Chipping | Lining Separation | Discoloration |
|--------------|---------------|-------------------|---------|---------|---------|----------|---------------|-------------------|---------------|
| Post Loop 5  | 5             | 5                 | 5       | 4       | 5       | 5        | 5             | 5                 | 4             |
| Post Loop 10 | 4             | 5                 | 4       | 4       | 5       | 5        | 5             | 5                 | 4             |
| Post Loop 15 | 4             | 5                 | 4       | 4       | 5       | 5        | 5             | 5                 | 4             |
| Post Loop 20 | 4             | 5                 | 4       | 4       | 5       | 5        | 4             | 5                 | 4             |
| Post Loop 25 | 4             | 5                 | 4       | 4       | 5       | 5        | 4             | 5                 | 4             |
| Post Loop 30 | 4             | 5                 | 4       | 4       | 5       | 5        | 4             | 5                 | 4             |
| Post Loop 35 | 4             | 5                 | 4       | 4       | 5       | 5        | 4             | 5                 | 4             |
| Post Loop 40 | 4             | 5                 | 4       | 4       | 5       | 5        | 4             | 5                 | 4             |
| Post Loop 45 | 4             | 4                 | 4       | 4       | 5       | 5        | 4             | 4                 | 4             |
| Final        | 4             | 4                 | 4       | 4       | 5       | 5        | 4             | 4                 | 4             |

### Rating Scale:

|        |       |          |       |              |
|--------|-------|----------|-------|--------------|
| 1      | 2     | 3        | 4     | 5            |
| Severe | Heavy | Moderate | Light | Not Observed |

### Test Description

MERITOR DRIVE SAE J2686 PART A

Drum

Primary Lining

Secondary Lining

054.1640

MERITOR MA2301

MERITOR MA2301

Air Chamber

Slack Adjuster

Actual Inertia

Actual Wheel Load

Rolling Radius

MGM / 30/30" LONG STROKE

AUTOMATIC / 6.0 inch / HALDEX

1069.96 slug-ft²

11501.27 lb

20.80 inch



Wear Comments

| Drum Wear Comments |               |                   |         |                 |           |        |               |
|--------------------|---------------|-------------------|---------|-----------------|-----------|--------|---------------|
|                    | Stress Cracks | Structural Cracks | Grooves | Lining Transfer | Hot Spots | Bluing | Discoloration |
| Post Loop 5        | 5             | 5                 | 5       | 5               | 5         | 5      | 4             |
| Post Loop 10       | 5             | 5                 | 4       | 5               | 5         | 4      | 4             |
| Post Loop 15       | 5             | 5                 | 4       | 5               | 5         | 4      | 4             |
| Post Loop 20       | 5             | 5                 | 4       | 5               | 5         | 4      | 4             |
| Post Loop 25       | 5             | 5                 | 4       | 5               | 5         | 4      | 4             |
| Post Loop 30       | 5             | 5                 | 4       | 5               | 5         | 4      | 4             |
| Post Loop 35       | 5             | 5                 | 4       | 5               | 4         | 4      | 4             |
| Post Loop 40       | 5             | 5                 | 4       | 5               | 4         | 4      | 4             |
| Post Loop 45       | 5             | 5                 | 4       | 4               | 4         | 4      | 4             |
| Final              | 5             | 5                 | 4       | 4               | 4         | 4      | 4             |

Rating Scale:

|        |       |          |       |              |
|--------|-------|----------|-------|--------------|
| 1      | 2     | 3        | 4     | 5            |
| Severe | Heavy | Moderate | Light | Not Observed |

|                                                        |                                            |                                              |                   |                               |
|--------------------------------------------------------|--------------------------------------------|----------------------------------------------|-------------------|-------------------------------|
| Test Description<br><br>MERITOR DRIVE SAE J2686 PART A | Drum<br>Primary Lining<br>Secondary Lining | 054.1640<br>MERITOR MA2301<br>MERITOR MA2301 | Air Chamber       | MGM / 30/30" LONG STROKE      |
|                                                        |                                            |                                              | Slack Adjuster    | AUTOMATIC / 6.0 inch / HALDEX |
|                                                        |                                            |                                              | Actual Inertia    | 1069.96 slug-ft²              |
|                                                        |                                            |                                              | Actual Wheel Load | 11501.27 lb                   |
|                                                        |                                            |                                              | Rolling Radius    | 20.80 inch                    |

Test Request #:  
112305-3-1



Customer Ref:

| Stop #                                      | Brake Speed mph | Release Speed mph | Stop Time sec | Cycle Time sec | Ret. Set Point g | Ret. Level g | -----<br>Min<br>lb-ft | Torque Avg (Time) lb-ft | -----<br>Max<br>lb-ft | -----<br>Min<br>psi | Pressure Avg (Time) psi | -----<br>Max<br>psi | -----<br>Min<br>inch | Stroke Avg (Time) inch | -----<br>Max<br>inch | Drum Temperature Initial °F | Drum Temperature Final °F | Lead Shoe Temperature Initial °F | Lead Shoe Temperature Final °F |
|---------------------------------------------|-----------------|-------------------|---------------|----------------|------------------|--------------|-----------------------|-------------------------|-----------------------|---------------------|-------------------------|---------------------|----------------------|------------------------|----------------------|-----------------------------|---------------------------|----------------------------------|--------------------------------|
| <b>Section 111 Durability Loop 1</b>        |                 |                   |               |                |                  |              |                       |                         |                       |                     |                         |                     |                      |                        |                      |                             |                           |                                  |                                |
| 1                                           | 30.07           | 1.61              | 1.94          | 444.51         | 0.745            | 0.587        | 11710.03              | 11710.03                | 11710.03              | 71.21               | 71.21                   | 71.21               | 2.43                 | 2.43                   | 2.43                 | 200.45                      | 322.14                    | 153.89                           | 172.05                         |
| 2                                           | 50.00           | 2.97              | 3.88          | 145.11         | 0.621            | 0.539        | 10255.54              | 10736.46                | 11276.81              | 106.40              | 119.55                  | 122.10              | 2.33                 | 2.55                   | 2.63                 | 200.22                      | 422.09                    | 163.88                           | 239.72                         |
| 3                                           | 60.02           | 2.97              | 5.00          | 418.59         | 0.528            | 0.511        | 9645.58               | 10181.25                | 10845.15              | 81.70               | 103.56                  | 116.26              | 2.11                 | 2.44                   | 2.63                 | 204.11                      | 472.45                    | 174.49                           | 277.49                         |
| 4                                           | 59.90           | 2.97              | 4.88          | 619.66         | 0.528            | 0.523        | 10154.66              | 10420.53                | 10760.70              | 81.36               | 91.24                   | 96.21               | 2.06                 | 2.32                   | 2.45                 | 203.81                      | 481.30                    | 185.17                           | 283.82                         |
| 5                                           | 70.05           | 2.97              | 8.04          | 726.86         | 0.373            | 0.371        | 7029.83               | 7395.02                 | 7782.89               | 59.78               | 66.35                   | 70.16               | 1.80                 | 2.07                   | 2.21                 | 200.07                      | 487.25                    | 184.41                           | 337.99                         |
| <b>Section 112 Speed Maintenance Loop 1</b> |                 |                   |               |                |                  |              |                       |                         |                       |                     |                         |                     |                      |                        |                      |                             |                           |                                  |                                |
| 1                                           | 54.33           | 55.07             | 34.52         | 1016.95        | 0.028            | 0.029        | 383.71                | 569.04                  | 759.84                | 7.22                | 7.64                    | 8.05                | 0.47                 | 0.59                   | 0.67                 | 151.16                      | 438.72                    | 169.99                           | 291.45                         |
| 2                                           | 55.07           | 54.95             | 34.50         | 70.01          | 0.028            | 0.029        | 346.95                | 572.17                  | 795.03                | 7.24                | 7.77                    | 8.77                | 0.26                 | 0.71                   | 0.77                 | 326.19                      | 533.71                    | 257.27                           | 376.45                         |
| 3                                           | 55.07           | 55.07             | 34.50         | 70.04          | 0.028            | 0.029        | 321.15                | 572.95                  | 820.06                | 7.09                | 7.71                    | 8.86                | 0.71                 | 0.78                   | 0.84                 | 422.63                      | 590.78                    | 325.40                           | 427.41                         |
| 4                                           | 54.95           | 54.95             | 34.52         | 75.02          | 0.037            | 0.038        | 550.27                | 751.24                  | 951.43                | 9.06                | 9.45                    | 10.17               | 0.87                 | 0.98                   | 1.07                 | 489.00                      | 654.87                    | 368.51                           | 488.07                         |
| 5                                           | 54.95           | 54.95             | 34.51         | 75.00          | 0.037            | 0.038        | 611.27                | 752.81                  | 874.80                | 9.35                | 10.01                   | 10.80               | 0.96                 | 1.06                   | 1.15                 | 568.58                      | 705.91                    | 425.50                           | 542.92                         |
| 6                                           | 54.95           | 54.95             | 34.51         | 75.02          | 0.037            | 0.038        | 623.78                | 757.50                  | 865.41                | 9.64                | 10.90                   | 12.06               | 1.02                 | 1.13                   | 1.22                 | 624.58                      | 747.72                    | 481.12                           | 594.35                         |
| 7                                           | 54.95           | 54.95             | 34.50         | 75.05          | 0.037            | 0.037        | 620.65                | 737.95                  | 866.98                | 9.75                | 10.94                   | 12.90               | 1.07                 | 1.17                   | 1.27                 | 670.59                      | 783.58                    | 531.63                           | 638.83                         |
| 8                                           | 54.95           | 55.07             | 34.52         | 75.00          | 0.037            | 0.037        | 609.70                | 744.20                  | 863.07                | 10.15               | 11.86                   | 14.37               | 1.09                 | 1.21                   | 1.33                 | 713.39                      | 811.74                    | 576.95                           | 674.69                         |
| 9                                           | 54.95           | 54.95             | 34.50         | 70.02          | 0.019            | 0.020        | 271.88                | 396.22                  | 505.70                | 6.20                | 7.65                    | 8.81                | 0.92                 | 0.98                   | 1.02                 | 749.86                      | 782.74                    | 621.05                           | 674.99                         |
| 10                                          | 54.95           | 55.07             | 34.51         | 70.00          | 0.019            | 0.020        | 255.46                | 389.96                  | 512.73                | 6.04                | 7.42                    | 8.74                | 0.86                 | 0.91                   | 0.97                 | 721.94                      | 758.18                    | 624.71                           | 656.83                         |
| 11                                          | 54.95           | 54.95             | 39.51         | 70.01          | 0.030            | 0.031        | 477.55                | 608.92                  | 730.91                | 8.21                | 10.18                   | 12.93               | 0.90                 | 1.05                   | 1.18                 | 709.80                      | 786.71                    | 615.79                           | 681.33                         |
| <b>Section 113 Cooling Loop 1</b>           |                 |                   |               |                |                  |              |                       |                         |                       |                     |                         |                     |                      |                        |                      |                             |                           |                                  |                                |
| 1                                           | 4.95            | 0.62              | 112.99        | 1200.13        | 0.000            | 0.001        | -21.62                | 19.98                   | 67.78                 | -0.09               | 0.02                    | 0.13                | -0.03                | -0.01                  | 0.00                 | 225.48                      | 206.33                    | 285.04                           | 265.66                         |
| <b>Section 121 Durability Loop 2</b>        |                 |                   |               |                |                  |              |                       |                         |                       |                     |                         |                     |                      |                        |                      |                             |                           |                                  |                                |
| 1                                           | 30.07           | 2.97              | 1.62          | 153.78         | 0.745            | 0.794        | 14922.45              | 15831.12                | 16397.28              | 107.46              | 114.45                  | 118.44              | 2.41                 | 2.47                   | 2.49                 | 200.53                      | 337.78                    | 258.64                           | 264.82                         |
| 2                                           | 50.00           | 2.97              | 3.32          | 258.99         | 0.621            | 0.632        | 12018.14              | 12605.41                | 13456.22              | 82.76               | 85.56                   | 91.89               | 2.22                 | 2.27                   | 2.33                 | 200.98                      | 436.74                    | 243.31                           | 283.21                         |
| 3                                           | 60.02           | 2.97              | 4.83          | 492.81         | 0.528            | 0.527        | 10124.16              | 10515.94                | 11166.55              | 71.39               | 75.77                   | 79.65               | 2.05                 | 2.20                   | 2.31                 | 200.68                      | 450.17                    | 223.62                           | 303.58                         |
| 4                                           | 59.90           | 2.97              | 4.80          | 619.59         | 0.528            | 0.528        | 10236.77              | 10521.41                | 11004.68              | 73.31               | 76.77                   | 79.83               | 2.08                 | 2.23                   | 2.33                 | 200.45                      | 456.27                    | 211.95                           | 294.81                         |
| 5                                           | 70.05           | 2.97              | 8.01          | 615.40         | 0.373            | 0.373        | 7096.30               | 7431.77                 | 7839.19               | 56.16               | 59.93                   | 63.13               | 1.84                 | 2.06                   | 2.20                 | 199.92                      | 462.91                    | 205.77                           | 335.93                         |
| <b>Section 122 Speed Maintenance Loop 2</b> |                 |                   |               |                |                  |              |                       |                         |                       |                     |                         |                     |                      |                        |                      |                             |                           |                                  |                                |
| 1                                           | 54.33           | 54.95             | 34.51         | 1055.49        | 0.028            | 0.029        | 313.33                | 569.04                  | 855.25                | 6.48                | 7.10                    | 7.89                | 0.56                 | 0.63                   | 0.70                 | 151.01                      | 436.05                    | 176.70                           | 268.41                         |
| 2                                           | 54.95           | 55.07             | 34.50         | 70.02          | 0.028            | 0.029        | 274.23                | 569.04                  | 891.22                | 6.35                | 6.89                    | 7.88                | 0.66                 | 0.72                   | 0.79                 | 335.65                      | 553.63                    | 240.56                           | 356.53                         |
| 3                                           | 54.95           | 54.95             | 34.51         | 70.01          | 0.028            | 0.029        | 239.04                | 568.26                  | 911.55                | 6.19                | 6.74                    | 8.09                | 0.73                 | 0.80                   | 0.86                 | 442.77                      | 605.81                    | 306.48                           | 408.87                         |
| 4                                           | 54.95           | 55.07             | 34.49         | 75.03          | 0.037            | 0.037        | 478.33                | 745.77                  | 1034.32               | 7.33                | 8.13                    | 9.12                | 0.86                 | 0.95                   | 1.05                 | 508.61                      | 651.97                    | 349.28                           | 459.99                         |
| 5                                           | 54.95           | 54.95             | 34.51         | 75.00          | 0.037            | 0.037        | 531.50                | 743.42                  | 968.63                | 7.29                | 8.54                    | 9.41                | 0.96                 | 1.06                   | 1.15                 | 582.08                      | 688.67                    | 399.79                           | 504.55                         |
| 6                                           | 54.95           | 55.07             | 34.50         | 75.00          | 0.037            | 0.037        | 572.17                | 741.86                  | 942.05                | 7.24                | 8.96                    | 9.75                | 1.03                 | 1.14                   | 1.23                 | 631.07                      | 725.14                    | 445.95                           | 548.95                         |
| 7                                           | 54.95           | 55.07             | 34.50         | 75.05          | 0.037            | 0.037        | 546.36                | 743.42                  | 956.90                | 7.77                | 9.17                    | 10.44               | 1.09                 | 1.19                   | 1.31                 | 672.57                      | 759.40                    | 490.81                           | 592.21                         |
| 8                                           | 55.07           | 54.95             | 34.50         | 75.01          | 0.037            | 0.037        | 583.90                | 738.73                  | 905.29                | 8.20                | 9.91                    | 12.15               | 1.11                 | 1.24                   | 1.37                 | 713.70                      | 791.59                    | 534.68                           | 632.11                         |
| 9                                           | 54.95           | 55.07             | 34.51         | 70.02          | 0.019            | 0.019        | 233.56                | 386.83                  | 533.85                | 5.30                | 6.73                    | 7.50                | 0.98                 | 1.04                   | 1.08                 | 749.17                      | 789.61                    | 581.99                           | 649.05                         |
| 10                                          | 54.95           | 54.95             | 34.50         | 70.01          | 0.019            | 0.019        | 154.58                | 386.05                  | 551.05                | 5.06                | 6.39                    | 7.40                | 0.90                 | 0.98                   | 1.02                 | 741.92                      | 788.01                    | 601.37                           | 655.61                         |
| 11                                          | 55.07           | 55.07             | 39.50         | 70.02          | 0.030            | 0.030        | 443.14                | 601.10                  | 766.88                | 6.99                | 9.00                    | 11.40               | 0.96                 | 1.10                   | 1.26                 | 737.35                      | 805.71                    | 610.83                           | 679.49                         |
| <b>Section 123 Cooling Loop 2</b>           |                 |                   |               |                |                  |              |                       |                         |                       |                     |                         |                     |                      |                        |                      |                             |                           |                                  |                                |
| 1                                           | 4.95            | 0.62              | 119.24        | 1183.95        | 0.000            | 0.001        | -17.70                | 18.41                   | 55.27                 | -0.07               | 0.03                    | 0.13                | -0.04                | -0.02                  | 0.00                 | 225.25                      | 205.26                    | 290.23                           | 269.63                         |

Test Request #:  
112305-3-1



Customer Ref:

| Stop #                               | Brake Speed mph | Release Speed mph | Stop Time sec | Cycle Time sec | Ret. Set Point g | Ret. Level g | Torque    |                  |           | Pressure |                |         | Stroke   |                 |          | Drum Temperature |          | Lead Shoe Temperature |          |
|--------------------------------------|-----------------|-------------------|---------------|----------------|------------------|--------------|-----------|------------------|-----------|----------|----------------|---------|----------|-----------------|----------|------------------|----------|-----------------------|----------|
|                                      |                 |                   |               |                |                  |              | Min lb-ft | Avg (Time) lb-ft | Max lb-ft | Min psi  | Avg (Time) psi | Max psi | Min inch | Avg (Time) inch | Max inch | Initial °F       | Final °F | Initial °F            | Final °F |
| Section 131 Durability Loop 3        |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                    | 30.07           | 2.97              | 1.61          | 145.92         | 0.745            | 0.787        | 14947.47  | 15682.54         | 16106.38  | 104.05   | 110.36         | 114.10  | 2.42     | 2.46            | 2.48     | 200.07           | 357.24   | 266.05                | 272.91   |
| 2                                    | 50.00           | 2.97              | 3.34          | 296.54         | 0.621            | 0.626        | 12107.29  | 12485.77         | 13009.70  | 88.48    | 90.49          | 92.19   | 2.24     | 2.33            | 2.40     | 200.91           | 460.09   | 240.94                | 287.10   |
| 3                                    | 60.02           | 2.97              | 4.78          | 585.53         | 0.528            | 0.529        | 10218.78  | 10544.87         | 11159.51  | 73.88    | 77.06          | 79.93   | 2.12     | 2.26            | 2.36     | 202.82           | 443.00   | 210.88                | 297.78   |
| 4                                    | 60.02           | 2.97              | 4.80          | 676.03         | 0.528            | 0.528        | 10322.00  | 10516.72         | 10758.35  | 77.02    | 79.92          | 82.03   | 2.13     | 2.29            | 2.39     | 202.74           | 463.21   | 196.08                | 290.38   |
| 5                                    | 70.05           | 2.97              | 8.02          | 545.63         | 0.373            | 0.373        | 7109.59   | 7440.37          | 7841.54   | 55.62    | 59.16          | 61.60   | 1.89     | 2.11            | 2.23     | 201.21           | 468.33   | 198.52                | 336.54   |
| Section 132 Speed Maintenance Loop 3 |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                    | 54.45           | 54.95             | 34.50         | 1038.32        | 0.028            | 0.029        | 419.68    | 572.17           | 729.35    | 6.94     | 7.70           | 8.74    | 0.62     | 0.70            | 0.76     | 150.63           | 420.95   | 174.11                | 273.37   |
| 2                                    | 54.95           | 55.07             | 34.52         | 70.02          | 0.028            | 0.029        | 335.22    | 575.29           | 817.71    | 6.64     | 7.32           | 8.27    | 0.72     | 0.79            | 0.86     | 326.11           | 538.29   | 244.22                | 369.50   |
| 3                                    | 55.07           | 54.95             | 34.50         | 70.01          | 0.028            | 0.029        | 325.84    | 572.95           | 802.07    | 6.59     | 7.26           | 8.05    | 0.80     | 0.87            | 0.94     | 425.45           | 591.39   | 316.32                | 427.56   |
| 4                                    | 55.07           | 54.95             | 34.50         | 75.04          | 0.037            | 0.037        | 505.70    | 740.29           | 987.40    | 7.04     | 8.45           | 9.26    | 0.93     | 1.03            | 1.13     | 485.11           | 650.45   | 363.17                | 490.81   |
| 5                                    | 54.95           | 54.95             | 34.51         | 75.01          | 0.037            | 0.037        | 510.39    | 740.29           | 981.93    | 7.34     | 8.54           | 9.39    | 1.03     | 1.13            | 1.21     | 563.62           | 692.48   | 421.38                | 533.39   |
| 6                                    | 55.07           | 54.95             | 34.51         | 75.02          | 0.037            | 0.037        | 579.20    | 735.60           | 924.06    | 7.28     | 8.79           | 9.55    | 1.09     | 1.18            | 1.28     | 626.11           | 725.06   | 466.70                | 565.43   |
| 7                                    | 54.95           | 55.07             | 34.51         | 75.03          | 0.037            | 0.037        | 592.50    | 734.04           | 892.78    | 7.39     | 9.28           | 10.20   | 1.13     | 1.24            | 1.35     | 667.31           | 751.54   | 504.17                | 596.71   |
| 8                                    | 55.07           | 54.95             | 34.51         | 74.99          | 0.037            | 0.037        | 578.42    | 737.17           | 933.44    | 7.20     | 9.36           | 11.35   | 1.14     | 1.26            | 1.40     | 702.17           | 788.31   | 540.86                | 634.33   |
| 9                                    | 54.95           | 55.07             | 34.50         | 70.03          | 0.019            | 0.019        | 174.92    | 386.05           | 534.63    | 4.71     | 6.25           | 7.57    | 0.98     | 1.06            | 1.10     | 746.50           | 786.56   | 584.73                | 651.49   |
| 10                                   | 54.95           | 54.95             | 34.51         | 70.03          | 0.019            | 0.019        | 133.47    | 382.92           | 552.62    | 4.71     | 6.19           | 7.32    | 0.90     | 0.99            | 1.03     | 735.97           | 787.70   | 603.73                | 658.21   |
| 11                                   | 54.95           | 55.07             | 39.50         | 70.01          | 0.030            | 0.030        | 454.87    | 597.19           | 745.77    | 6.15     | 8.70           | 11.55   | 0.97     | 1.11            | 1.29     | 733.53           | 805.78   | 613.73                | 682.55   |
| Section 133 Cooling Loop 3           |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                    | 4.95            | 0.62              | 111.14        | 1181.24        | 0.000            | 0.001        | -22.41    | 22.33            | 83.42     | -0.13    | -0.01          | 0.11    | -0.04    | -0.02           | 0.00     | 226.16           | 205.94   | 289.16                | 270.85   |
| Section 141 Durability Loop 4        |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                    | 29.95           | 2.97              | 1.56          | 170.99         | 0.745            | 0.781        | 14781.69  | 15578.53         | 15960.93  | 95.97    | 101.62         | 105.01  | 2.34     | 2.39            | 2.41     | 203.04           | 360.14   | 261.85                | 269.63   |
| 2                                    | 50.00           | 2.97              | 3.35          | 305.09         | 0.621            | 0.625        | 12092.43  | 12463.09         | 13055.06  | 83.63    | 85.95          | 87.78   | 2.20     | 2.29            | 2.36     | 200.60           | 469.78   | 236.29                | 289.01   |
| 3                                    | 60.02           | 2.97              | 4.78          | 525.64         | 0.528            | 0.527        | 10218.00  | 10506.55         | 11259.61  | 70.78    | 75.03          | 78.70   | 2.09     | 2.24            | 2.35     | 200.76           | 457.19   | 212.79                | 300.68   |
| 4                                    | 60.02           | 2.97              | 4.81          | 663.87         | 0.528            | 0.527        | 10304.80  | 10504.99         | 11107.12  | 72.10    | 75.49          | 78.74   | 2.12     | 2.27            | 2.37     | 201.98           | 479.01   | 197.68                | 293.51   |
| 5                                    | 69.92           | 2.97              | 7.98          | 542.86         | 0.373            | 0.374        | 7145.57   | 7452.10          | 8051.11   | 54.06    | 57.28          | 59.52   | 1.90     | 2.09            | 2.22     | 202.36           | 472.60   | 199.74                | 333.64   |
| Section 142 Speed Maintenance Loop 4 |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                    | 54.45           | 54.95             | 34.50         | 1024.71        | 0.028            | 0.029        | 285.18    | 570.60           | 864.63    | 6.17     | 7.10           | 8.15    | 0.63     | 0.71            | 0.76     | 150.09           | 448.72   | 173.80                | 296.95   |
| 2                                    | 54.95           | 55.07             | 34.50         | 70.05          | 0.028            | 0.029        | 235.91    | 568.26           | 909.20    | 6.07     | 6.71           | 7.97    | 0.72     | 0.79            | 0.86     | 340.68           | 575.22   | 257.04                | 394.15   |
| 3                                    | 54.95           | 54.95             | 34.52         | 70.01          | 0.028            | 0.029        | 267.19    | 569.82           | 892.78    | 6.15     | 6.79           | 8.05    | 0.81     | 0.88            | 0.94     | 449.94           | 625.65   | 331.81                | 441.53   |
| 4                                    | 55.07           | 54.95             | 34.52         | 75.01          | 0.037            | 0.037        | 456.43    | 747.33           | 1040.58   | 7.06     | 8.13           | 9.32    | 0.95     | 1.05            | 1.91     | 507.77           | 666.09   | 374.31                | 500.43   |
| 5                                    | 54.95           | 55.07             | 34.51         | 75.02          | 0.037            | 0.037        | 511.17    | 744.99           | 987.40    | 7.19     | 8.43           | 9.30    | 1.04     | 1.14            | 1.22     | 575.14           | 692.41   | 429.62                | 539.87   |
| 6                                    | 55.07           | 54.95             | 34.51         | 75.01          | 0.037            | 0.037        | 595.63    | 742.64           | 918.59    | 7.14     | 9.01           | 9.70    | 1.10     | 1.21            | 1.30     | 623.44           | 715.98   | 472.73                | 565.81   |
| 7                                    | 54.95           | 55.07             | 34.50         | 75.05          | 0.037            | 0.037        | 529.16    | 742.64           | 960.81    | 7.26     | 8.86           | 10.20   | 1.14     | 1.25            | 1.37     | 664.26           | 752.38   | 507.07                | 598.93   |
| 8                                    | 54.95           | 54.95             | 34.50         | 75.02          | 0.037            | 0.037        | 531.50    | 740.29           | 953.78    | 7.62     | 9.37           | 11.71   | 1.17     | 1.29            | 1.43     | 704.92           | 791.06   | 543.61                | 638.75   |
| 9                                    | 55.07           | 54.95             | 34.51         | 70.01          | 0.019            | 0.019        | 135.82    | 384.49           | 581.55    | 4.89     | 6.59           | 7.44    | 1.02     | 1.10            | 1.14     | 744.60           | 787.17   | 587.79                | 656.61   |
| 10                                   | 54.95           | 54.95             | 34.51         | 70.01          | 0.019            | 0.019        | 120.96    | 387.62           | 592.50    | 4.95     | 6.34           | 7.26    | 0.96     | 1.04            | 1.08     | 737.96           | 791.21   | 608.39                | 665.53   |
| 11                                   | 55.07           | 54.95             | 39.50         | 70.02          | 0.030            | 0.030        | 403.26    | 599.54           | 799.72    | 6.62     | 8.61           | 11.15   | 1.02     | 1.15            | 1.30     | 737.73           | 811.28   | 618.99                | 689.11   |
| Section 143 Cooling Loop 4           |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                    | 4.95            | 0.62              | 107.52        | 1171.25        | 0.000            | 0.001        | -19.27    | 24.69            | 57.62     | -0.11    | 0.01           | 0.13    | -0.02    | 0.00            | 0.02     | 225.40           | 207.16   | 291.07                | 273.06   |

Test Request #:  
112305-3-1



Customer Ref:

| Stop #                               | Brake Speed mph | Release Speed mph | Stop Time sec | Cycle Time sec | Ret. Set Point g | Ret. Level g | Torque    |                  |           | Pressure |                |         | Stroke   |                 |          | Drum Temperature |          | Lead Shoe Temperature |          |
|--------------------------------------|-----------------|-------------------|---------------|----------------|------------------|--------------|-----------|------------------|-----------|----------|----------------|---------|----------|-----------------|----------|------------------|----------|-----------------------|----------|
|                                      |                 |                   |               |                |                  |              | Min lb-ft | Avg (Time) lb-ft | Max lb-ft | Min psi  | Avg (Time) psi | Max psi | Min inch | Avg (Time) inch | Max inch | Initial °F       | Final °F | Initial °F            | Final °F |
| Section 151 Durability Loop 5        |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                    | 30.07           | 2.97              | 1.57          | 155.53         | 0.745            | 0.783        | 14978.75  | 15607.47         | 15965.62  | 92.17    | 98.44          | 102.23  | 2.32     | 2.36            | 2.38     | 204.11           | 367.01   | 265.28                | 274.21   |
| 2                                    | 50.00           | 2.97              | 3.34          | 353.92         | 0.621            | 0.624        | 12118.23  | 12434.94         | 13035.51  | 82.36    | 84.61          | 86.61   | 2.18     | 2.27            | 2.35     | 203.35           | 473.13   | 233.01                | 289.85   |
| 3                                    | 60.02           | 2.97              | 4.81          | 556.07         | 0.528            | 0.526        | 10218.78  | 10486.22         | 11062.55  | 70.44    | 74.87          | 78.89   | 2.06     | 2.22            | 2.33     | 202.59           | 462.68   | 206.61                | 298.47   |
| 4                                    | 60.02           | 2.97              | 4.82          | 641.30         | 0.528            | 0.526        | 10295.42  | 10487.00         | 10996.86  | 71.20    | 75.02          | 78.86   | 2.07     | 2.24            | 2.34     | 202.82           | 486.03   | 195.47                | 293.97   |
| 5                                    | 70.05           | 2.97              | 8.00          | 548.52         | 0.373            | 0.373        | 7140.87   | 7440.37          | 8062.06   | 53.06    | 56.81          | 59.20   | 1.84     | 2.05            | 2.18     | 200.76           | 482.75   | 197.15                | 335.17   |
| Section 152 Speed Maintenance Loop 5 |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                    | 54.33           | 55.07             | 34.51         | 1009.14        | 0.028            | 0.029        | 273.45    | 571.38           | 869.32    | 6.17     | 7.04           | 8.26    | 0.61     | 0.69            | 0.75     | 152.54           | 476.95   | 172.58                | 303.81   |
| 2                                    | 55.07           | 54.95             | 34.52         | 70.02          | 0.028            | 0.028        | 220.27    | 567.47           | 940.48    | 5.92     | 6.65           | 8.01    | 0.70     | 0.77            | 0.84     | 351.59           | 582.47   | 261.16                | 403.23   |
| 3                                    | 54.95           | 55.07             | 34.50         | 70.02          | 0.028            | 0.029        | 217.14    | 568.26           | 926.41    | 5.96     | 6.75           | 8.13    | 0.79     | 0.86            | 0.92     | 448.41           | 639.54   | 337.23                | 449.69   |
| 4                                    | 54.95           | 54.95             | 34.51         | 75.02          | 0.037            | 0.037        | 393.09    | 746.55           | 1118.78   | 7.24     | 8.09           | 9.23    | 0.93     | 1.02            | 1.11     | 505.64           | 689.51   | 379.35                | 510.65   |
| 5                                    | 55.07           | 55.07             | 34.49         | 75.01          | 0.037            | 0.037        | 414.99    | 744.20           | 1087.50   | 7.26     | 8.25           | 9.33    | 1.02     | 1.12            | 1.20     | 590.25           | 715.30   | 435.65                | 546.05   |
| 6                                    | 54.95           | 55.07             | 34.52         | 75.03          | 0.037            | 0.037        | 499.44    | 740.29           | 996.00    | 7.22     | 8.66           | 9.53    | 1.09     | 1.19            | 1.28     | 642.51           | 731.78   | 477.23                | 567.49   |
| 7                                    | 55.07           | 54.95             | 34.50         | 75.01          | 0.037            | 0.037        | 551.05    | 739.51           | 946.74    | 7.24     | 9.37           | 10.16   | 1.12     | 1.24            | 1.35     | 678.06           | 756.42   | 508.13                | 592.29   |
| 8                                    | 54.95           | 55.07             | 34.51         | 75.02          | 0.037            | 0.037        | 492.40    | 740.29           | 999.13    | 7.38     | 9.26           | 11.45   | 1.14     | 1.26            | 1.39     | 709.27           | 798.08   | 539.49                | 632.65   |
| 9                                    | 54.95           | 54.95             | 34.52         | 70.02          | 0.019            | 0.019        | 188.99    | 384.49           | 527.59    | 5.04     | 6.61           | 7.35    | 0.98     | 1.05            | 1.09     | 753.45           | 800.14   | 584.05                | 656.61   |
| 10                                   | 55.07           | 55.07             | 34.49         | 70.01          | 0.019            | 0.019        | 145.20    | 386.83           | 583.11    | 4.86     | 6.31           | 7.24    | 0.91     | 1.00            | 1.03     | 746.81           | 810.97   | 607.17                | 668.97   |
| 11                                   | 54.95           | 54.95             | 39.50         | 70.01          | 0.030            | 0.030        | 383.71    | 602.66           | 827.88    | 6.52     | 8.30           | 10.75   | 0.96     | 1.09            | 1.26     | 748.03           | 831.19   | 621.13                | 694.37   |
| Section 153 Cooling Loop 5           |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                    | 5.07            | 0.62              | 105.63        | 1171.01        | 0.000            | 0.001        | -12.20    | 27.83            | 59.96     | -0.07    | 0.04           | 0.15    | -0.03    | -0.02           | 0.00     | 225.55           | 206.25   | 289.85                | 271.46   |
| Section 211 Durability Loop 6        |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                    | 29.95           | 2.97              | 1.61          | 63.41          | 0.745            | 0.737        | 14005.17  | 14694.10         | 15473.75  | 103.70   | 110.64         | 114.12  | 2.30     | 2.41            | 2.46     | 202.74           | 321.15   | 126.88                | 141.99   |
| 2                                    | 50.00           | 2.97              | 3.43          | 158.01         | 0.621            | 0.609        | 11714.73  | 12144.82         | 12580.39  | 84.45    | 97.83          | 104.11  | 2.12     | 2.34            | 2.45     | 200.45           | 437.20   | 134.51                | 206.76   |
| 3                                    | 60.02           | 2.97              | 4.86          | 459.15         | 0.528            | 0.519        | 10045.18  | 10354.07         | 10678.59  | 71.74    | 81.82          | 88.81   | 1.97     | 2.20            | 2.34     | 203.04           | 457.11   | 151.52                | 244.68   |
| 4                                    | 60.02           | 2.97              | 4.85          | 676.53         | 0.528            | 0.523        | 10208.62  | 10416.62         | 10649.66  | 70.37    | 77.47          | 82.42   | 1.92     | 2.14            | 2.27     | 201.75           | 479.16   | 168.46                | 261.85   |
| 5                                    | 70.05           | 2.97              | 8.05          | 658.34         | 0.373            | 0.372        | 7178.41   | 7417.70          | 7738.31   | 53.37    | 57.42          | 60.03   | 1.67     | 1.93            | 2.07     | 203.58           | 496.17   | 178.30                | 312.51   |
| Section 212 Speed Maintenance Loop 6 |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                    | 54.45           | 54.95             | 34.51         | 1080.18        | 0.028            | 0.029        | 303.94    | 571.38           | 837.26    | 6.08     | 6.89           | 8.04    | 0.51     | 0.59            | 0.66     | 152.08           | 466.65   | 165.41                | 291.45   |
| 2                                    | 54.95           | 55.07             | 34.50         | 70.02          | 0.028            | 0.028        | 222.62    | 567.47           | 924.06    | 5.90     | 6.67           | 7.83    | 0.25     | 0.69            | 1.08     | 353.35           | 584.75   | 256.05                | 388.04   |
| 3                                    | 54.95           | 55.07             | 34.51         | 70.04          | 0.028            | 0.029        | 238.26    | 569.04           | 916.24    | 6.01     | 6.81           | 8.02    | 0.70     | 0.77            | 0.83     | 453.91           | 641.29   | 334.03                | 439.47   |
| 4                                    | 54.95           | 54.95             | 34.51         | 74.98          | 0.037            | 0.037        | 436.10    | 744.99           | 1049.96   | 7.34     | 8.22           | 8.98    | 0.81     | 0.91            | 1.00     | 511.89           | 690.50   | 377.97                | 501.57   |
| 5                                    | 54.95           | 55.07             | 34.51         | 75.03          | 0.037            | 0.037        | 465.82    | 743.42           | 1031.98   | 7.26     | 8.51           | 9.28    | 0.91     | 1.00            | 1.09     | 594.14           | 711.02   | 435.80                | 541.55   |
| 6                                    | 55.07           | 54.95             | 34.50         | 75.03          | 0.037            | 0.037        | 538.54    | 741.86           | 959.25    | 7.85     | 9.26           | 9.85    | 0.95     | 1.09            | 1.18     | 644.27           | 734.60   | 478.61                | 563.75   |
| 7                                    | 54.95           | 54.95             | 34.50         | 75.01          | 0.037            | 0.037        | 576.86    | 741.86           | 924.06    | 7.89     | 9.64           | 10.66   | 1.02     | 1.15            | 1.26     | 676.69           | 763.67   | 510.19                | 592.75   |
| 8                                    | 55.07           | 54.95             | 34.51         | 75.02          | 0.037            | 0.037        | 531.50    | 737.95           | 970.20    | 8.05     | 9.68           | 11.87   | 1.06     | 1.19            | 1.32     | 713.31           | 803.95   | 543.99                | 631.73   |
| 9                                    | 54.95           | 55.07             | 34.50         | 70.01          | 0.019            | 0.019        | 262.50    | 375.89           | 513.52    | 5.37     | 6.79           | 7.77    | 0.94     | 0.99            | 1.03     | 754.06           | 795.94   | 587.63                | 654.77   |
| 10                                   | 55.07           | 54.95             | 34.50         | 69.99          | 0.019            | 0.019        | 227.31    | 384.49           | 558.09    | 5.10     | 6.50           | 7.16    | 0.87     | 0.93            | 0.97     | 744.60           | 808.68   | 609.61                | 667.67   |
| 11                                   | 54.95           | 55.07             | 39.51         | 70.02          | 0.030            | 0.030        | 436.10    | 600.32           | 809.11    | 6.95     | 8.85           | 11.31   | 0.90     | 1.04            | 1.20     | 746.43           | 830.20   | 624.49                | 691.47   |
| Section 213 Cooling Loop 6           |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                    | 4.95            | 0.62              | 108.00        | 1254.69        | 0.000            | 0.001        | -12.99    | 26.26            | 67.00     | -0.15    | -0.01          | 0.11    | -0.03    | -0.01           | 0.00     | 225.48           | 208.16   | 284.05                | 266.88   |

Test Request #:  
112305-3-1



Customer Ref:

| Stop #                               | Brake Speed mph | Release Speed mph | Stop Time sec | Cycle Time sec | Ret. Set Point g | Ret. Level g | Torque    |                  |           | Pressure |                |         | Stroke   |                 |          | Drum Temperature |          | Lead Shoe Temperature |          |
|--------------------------------------|-----------------|-------------------|---------------|----------------|------------------|--------------|-----------|------------------|-----------|----------|----------------|---------|----------|-----------------|----------|------------------|----------|-----------------------|----------|
|                                      |                 |                   |               |                |                  |              | Min lb-ft | Avg (Time) lb-ft | Max lb-ft | Min psi  | Avg (Time) psi | Max psi | Min inch | Avg (Time) inch | Max inch | Initial °F       | Final °F | Initial °F            | Final °F |
| Section 221 Durability Loop 7        |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                    | 30.07           | 2.97              | 1.54          | 212.50         | 0.745            | 0.778        | 14863.01  | 15519.10         | 15855.36  | 91.17    | 96.34          | 99.71   | 2.17     | 2.22            | 2.24     | 203.04           | 349.99   | 252.08                | 260.32   |
| 2                                    | 50.00           | 2.97              | 3.33          | 317.10         | 0.621            | 0.620        | 12062.71  | 12358.30         | 12664.84  | 79.91    | 83.44          | 86.49   | 2.01     | 2.15            | 2.24     | 202.51           | 474.58   | 231.48                | 283.67   |
| 3                                    | 60.02           | 2.97              | 4.83          | 770.47         | 0.528            | 0.524        | 10155.44  | 10454.16         | 10765.39  | 70.05    | 75.61          | 80.05   | 1.91     | 2.11            | 2.24     | 202.13           | 473.36   | 193.41                | 277.64   |
| 4                                    | 60.02           | 2.97              | 4.82          | 752.35         | 0.528            | 0.523        | 10201.58  | 10432.26         | 10788.85  | 70.29    | 76.23          | 80.79   | 1.93     | 2.14            | 2.26     | 200.07           | 504.03   | 188.53                | 281.30   |
| 5                                    | 69.92           | 2.97              | 7.98          | 703.23         | 0.373            | 0.372        | 7077.53   | 7420.83          | 7969.00   | 53.00    | 57.15          | 59.82   | 1.70     | 1.95            | 2.09     | 202.05           | 448.72   | 188.60                | 317.55   |
| Section 222 Speed Maintenance Loop 7 |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                    | 54.45           | 54.95             | 34.51         | 1139.35        | 0.028            | 0.029        | 224.18    | 569.82           | 902.95    | 5.86     | 6.77           | 7.99    | 0.57     | 0.64            | 0.71     | 154.60           | 512.81   | 169.30                | 315.33   |
| 2                                    | 54.95           | 55.07             | 34.50         | 70.01          | 0.028            | 0.029        | 203.07    | 568.26           | 966.29    | 5.82     | 6.59           | 7.88    | 0.67     | 0.74            | 0.81     | 375.25           | 620.54   | 269.25                | 406.43   |
| 3                                    | 54.95           | 55.07             | 34.50         | 70.04          | 0.028            | 0.029        | 205.41    | 569.04           | 954.56    | 5.94     | 6.71           | 7.97    | 0.75     | 0.82            | 0.89     | 469.47           | 656.78   | 344.63                | 451.29   |
| 4                                    | 55.07           | 54.95             | 34.50         | 74.99          | 0.037            | 0.037        | 403.26    | 746.55           | 1107.05   | 7.33     | 8.11           | 9.11    | 0.87     | 0.96            | 1.05     | 530.51           | 682.95   | 385.83                | 504.55   |
| 5                                    | 54.95           | 55.07             | 34.51         | 75.02          | 0.037            | 0.037        | 421.24    | 744.99           | 1085.93   | 7.71     | 8.46           | 9.24    | 0.96     | 1.05            | 1.13     | 602.30           | 699.58   | 438.93                | 541.93   |
| 6                                    | 55.07           | 54.95             | 34.50         | 75.02          | 0.037            | 0.037        | 524.46    | 742.64           | 970.20    | 7.88     | 9.11           | 9.77    | 1.02     | 1.14            | 1.23     | 646.86           | 719.65   | 480.13                | 563.07   |
| 7                                    | 54.95           | 55.07             | 34.51         | 75.01          | 0.037            | 0.037        | 544.01    | 742.64           | 958.47    | 8.04     | 9.69           | 10.86   | 1.06     | 1.20            | 1.31     | 680.05           | 752.99   | 509.96                | 589.69   |
| 8                                    | 55.07           | 54.95             | 34.51         | 74.99          | 0.037            | 0.037        | 506.48    | 737.95           | 982.71    | 7.84     | 9.69           | 12.12   | 1.10     | 1.23            | 1.37     | 711.86           | 799.68   | 542.92                | 632.95   |
| 9                                    | 55.07           | 54.95             | 34.51         | 70.03          | 0.019            | 0.019        | 259.37    | 382.92           | 508.04    | 5.94     | 7.14           | 7.64    | 0.99     | 1.04            | 1.08     | 756.65           | 800.22   | 588.09                | 664.01   |
| 10                                   | 54.95           | 54.95             | 34.50         | 70.02          | 0.019            | 0.019        | 193.68    | 386.05           | 593.28    | 5.35     | 6.58           | 7.14    | 0.93     | 0.98            | 1.02     | 751.39           | 826.46   | 615.79                | 678.43   |
| 11                                   | 55.07           | 54.95             | 39.50         | 70.04          | 0.030            | 0.030        | 384.49    | 601.88           | 841.17    | 6.97     | 8.81           | 11.73   | 0.95     | 1.09            | 1.26     | 757.18           | 853.32   | 632.27                | 699.41   |
| Section 223 Cooling Loop 7           |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                    | 4.95            | 0.62              | 108.56        | 1274.85        | 0.000            | 0.001        | -14.56    | 27.04            | 60.75     | -0.15    | -0.01          | 0.09    | -0.02    | 0.00            | 0.02     | 228.07           | 208.84   | 287.48                | 270.17   |
| Section 231 Durability Loop 8        |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                    | 29.95           | 2.97              | 1.54          | 225.90         | 0.745            | 0.778        | 14917.75  | 15507.37         | 15832.68  | 92.63    | 97.97          | 101.41  | 2.19     | 2.24            | 2.27     | 201.82           | 358.84   | 254.14                | 262.61   |
| 2                                    | 50.00           | 2.97              | 3.37          | 346.51         | 0.621            | 0.620        | 12067.40  | 12364.56         | 12739.91  | 80.83    | 84.67          | 88.05   | 2.03     | 2.17            | 2.27     | 201.67           | 479.47   | 229.80                | 284.51   |
| 3                                    | 60.02           | 2.97              | 4.81          | 696.84         | 0.528            | 0.525        | 10235.20  | 10464.33         | 10809.18  | 72.36    | 77.63          | 81.37   | 1.91     | 2.12            | 2.24     | 201.37           | 486.87   | 199.36                | 284.59   |
| 4                                    | 60.02           | 2.97              | 4.85          | 842.28         | 0.528            | 0.523        | 10201.58  | 10420.53         | 10678.59  | 71.59    | 78.70          | 83.62   | 1.92     | 2.14            | 2.27     | 202.36           | 520.28   | 184.94                | 286.11   |
| 5                                    | 70.05           | 2.97              | 8.06          | 696.50         | 0.373            | 0.371        | 7082.22   | 7400.49          | 7804.78   | 54.00    | 59.63          | 62.74   | 1.71     | 1.98            | 2.12     | 202.13           | 458.79   | 187.23                | 319.61   |
| Section 232 Speed Maintenance Loop 8 |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                    | 54.45           | 54.95             | 34.51         | 1156.93        | 0.028            | 0.029        | 217.14    | 570.60           | 951.43    | 5.88     | 6.69           | 8.05    | 0.26     | 0.65            | 0.72     | 154.60           | 437.66   | 168.00                | 320.06   |
| 2                                    | 54.95           | 55.07             | 34.52         | 70.00          | 0.028            | 0.029        | 189.77    | 569.82           | 999.13    | 5.70     | 6.56           | 7.97    | 0.68     | 0.75            | 0.82     | 357.54           | 522.42   | 270.47                | 408.49   |
| 3                                    | 54.95           | 54.95             | 34.52         | 70.03          | 0.028            | 0.028        | 207.76    | 567.47           | 925.62    | 5.92     | 6.66           | 8.01    | 0.77     | 0.83            | 0.90     | 448.57           | 578.96   | 345.47                | 452.97   |
| 4                                    | 55.07           | 54.95             | 34.50         | 75.03          | 0.037            | 0.037        | 412.64    | 745.77           | 1082.80   | 7.10     | 8.11           | 9.19    | 0.89     | 0.98            | 1.07     | 508.84           | 622.90   | 385.83                | 501.95   |
| 5                                    | 54.95           | 54.95             | 34.51         | 75.01          | 0.037            | 0.037        | 454.87    | 745.77           | 1053.09   | 7.88     | 8.72           | 9.51    | 0.99     | 1.09            | 1.17     | 577.58           | 660.14   | 437.03                | 541.09   |
| 6                                    | 55.07           | 54.95             | 34.51         | 75.01          | 0.037            | 0.037        | 533.85    | 744.20           | 973.33    | 8.00     | 9.51           | 10.06   | 0.25     | 1.18            | 1.27     | 628.55           | 689.36   | 479.06                | 562.23   |
| 7                                    | 54.95           | 55.07             | 34.50         | 75.03          | 0.037            | 0.037        | 493.97    | 741.86           | 1000.70   | 7.83     | 9.46           | 11.11   | 1.11     | 1.22            | 1.33     | 665.48           | 728.65   | 509.51                | 592.29   |
| 8                                    | 54.95           | 55.07             | 34.50         | 75.05          | 0.037            | 0.037        | 534.63    | 738.73           | 960.81    | 8.26     | 10.13          | 12.21   | 1.13     | 1.27            | 1.38     | 704.46           | 775.80   | 542.77                | 635.40   |
| 9                                    | 55.07           | 54.95             | 34.52         | 70.01          | 0.019            | 0.019        | 246.08    | 384.49           | 539.32    | 5.60     | 7.10           | 7.64    | 1.01     | 1.06            | 1.09     | 745.13           | 790.37   | 589.01                | 671.41   |
| 10                                   | 54.95           | 55.07             | 34.50         | 70.00          | 0.019            | 0.019        | 187.43    | 387.62           | 612.05    | 5.49     | 6.55           | 7.24    | 0.95     | 0.99            | 1.03     | 749.48           | 816.62   | 619.75                | 686.21   |
| 11                                   | 54.95           | 54.95             | 39.50         | 70.03          | 0.030            | 0.030        | 381.36    | 600.32           | 855.25    | 7.29     | 8.90           | 11.48   | 0.97     | 1.10            | 1.26     | 753.52           | 849.81   | 636.69                | 705.97   |
| Section 233 Cooling Loop 8           |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                    | 4.95            | 0.62              | 110.98        | 1285.54        | 0.000            | 0.001        | -14.56    | 25.47            | 63.09     | -0.19    | -0.02          | 0.09    | -0.01    | 0.00            | 0.02     | 225.32           | 207.39   | 287.79                | 270.47   |

Test Request #:  
112305-3-1



Customer Ref:

| Stop #                                       | Brake Speed mph | Release Speed mph | Stop Time sec | Cycle Time sec | Ret. Set Point g | Ret. Level g | -----<br>Min<br>lb-ft | Torque Avg (Time) lb-ft | -----<br>Max<br>lb-ft | -----<br>Min<br>psi | Pressure Avg (Time) psi | -----<br>Max<br>psi | -----<br>Min<br>inch | Stroke Avg (Time) inch | -----<br>Max<br>inch | Drum Temperature<br>Initial °F      Final °F |        | Lead Shoe Temperature<br>Initial °F      Final °F |        |
|----------------------------------------------|-----------------|-------------------|---------------|----------------|------------------|--------------|-----------------------|-------------------------|-----------------------|---------------------|-------------------------|---------------------|----------------------|------------------------|----------------------|----------------------------------------------|--------|---------------------------------------------------|--------|
| <b>Section 241 Durability Loop 9</b>         |                 |                   |               |                |                  |              |                       |                         |                       |                     |                         |                     |                      |                        |                      |                                              |        |                                                   |        |
| 1                                            | 30.07           | 2.97              | 1.57          | 224.02         | 0.745            | 0.775        | 14708.18              | 15448.72                | 15938.25              | 93.76               | 98.60                   | 101.45              | 2.17                 | 2.24                   | 2.26                 | 200.45                                       | 358.69 | 254.83                                            | 263.99 |
| 2                                            | 50.00           | 2.97              | 3.36          | 436.29         | 0.621            | 0.619        | 12066.62              | 12337.19                | 12696.12              | 81.92               | 86.13                   | 89.96               | 2.04                 | 2.17                   | 2.27                 | 200.30                                       | 461.61 | 221.03                                            | 276.80 |
| 3                                            | 60.02           | 2.97              | 4.83          | 803.01         | 0.528            | 0.524        | 10174.21              | 10443.99                | 10695.01              | 72.78               | 79.38                   | 83.83               | 1.92                 | 2.13                   | 2.26                 | 201.06                                       | 452.30 | 187.84                                            | 279.24 |
| 4                                            | 60.02           | 2.97              | 4.88          | 684.43         | 0.528            | 0.523        | 10171.08              | 10417.41                | 10722.38              | 72.20               | 79.02                   | 84.51               | 1.93                 | 2.16                   | 2.29                 | 202.13                                       | 495.34 | 189.06                                            | 286.95 |
| 5                                            | 70.05           | 2.97              | 8.06          | 745.70         | 0.373            | 0.372        | 7013.41               | 7413.01                 | 7996.37               | 53.89               | 58.95                   | 62.18               | 1.71                 | 1.98                   | 2.12                 | 202.21                                       | 450.02 | 188.53                                            | 326.47 |
| <b>Section 242 Speed Maintenance Loop 9</b>  |                 |                   |               |                |                  |              |                       |                         |                       |                     |                         |                     |                      |                        |                      |                                              |        |                                                   |        |
| 1                                            | 54.45           | 54.95             | 34.51         | 1168.96        | 0.028            | 0.029        | 217.14                | 569.04                  | 946.74                | 5.75                | 6.64                    | 7.84                | 0.60                 | 0.68                   | 0.75                 | 152.99                                       | 528.07 | 169.68                                            | 325.25 |
| 2                                            | 55.07           | 54.95             | 34.51         | 69.99          | 0.028            | 0.029        | 194.47                | 569.82                  | 1003.82               | 5.88                | 6.53                    | 7.86                | 0.70                 | 0.78                   | 0.85                 | 381.65                                       | 664.94 | 273.37                                            | 410.93 |
| 3                                            | 54.95           | 55.07             | 34.50         | 70.04          | 0.028            | 0.029        | 224.96                | 569.82                  | 931.10                | 5.97                | 6.66                    | 8.06                | 0.79                 | 0.86                   | 0.93                 | 497.17                                       | 686.61 | 347.22                                            | 458.01 |
| 4                                            | 55.07           | 54.95             | 34.51         | 75.02          | 0.037            | 0.037        | 389.18                | 746.55                  | 1082.80               | 6.83                | 7.92                    | 9.16                | 0.92                 | 1.02                   | 1.11                 | 547.06                                       | 679.97 | 388.42                                            | 502.79 |
| 5                                            | 54.95           | 55.07             | 34.51         | 75.02          | 0.037            | 0.037        | 464.25                | 745.77                  | 1028.85               | 7.42                | 8.58                    | 9.36                | 1.02                 | 1.12                   | 1.21                 | 604.44                                       | 694.70 | 437.71                                            | 541.63 |
| 6                                            | 54.95           | 54.95             | 34.52         | 75.01          | 0.037            | 0.037        | 536.98                | 743.42                  | 954.56                | 7.71                | 9.42                    | 10.15               | 1.07                 | 1.19                   | 1.91                 | 645.49                                       | 719.34 | 479.45                                            | 562.23 |
| 7                                            | 54.95           | 55.07             | 34.50         | 75.00          | 0.037            | 0.037        | 447.83                | 743.42                  | 1040.58               | 7.24                | 8.92                    | 10.53               | 1.12                 | 1.23                   | 1.35                 | 681.50                                       | 766.87 | 508.97                                            | 589.01 |
| 8                                            | 54.95           | 55.07             | 34.51         | 75.03          | 0.037            | 0.037        | 529.94                | 739.51                  | 959.25                | 7.79                | 9.72                    | 11.63               | 1.15                 | 1.28                   | 1.39                 | 722.62                                       | 804.49 | 541.25                                            | 643.41 |
| 9                                            | 55.07           | 54.95             | 34.50         | 70.01          | 0.019            | 0.019        | 214.80                | 385.27                  | 588.59                | 5.21                | 6.79                    | 7.42                | 1.01                 | 1.07                   | 1.10                 | 757.57                                       | 825.09 | 594.81                                            | 686.13 |
| 10                                           | 54.95           | 55.07             | 34.51         | 70.01          | 0.019            | 0.020        | 177.26                | 390.74                  | 623.00                | 5.34                | 6.51                    | 7.21                | 0.95                 | 1.01                   | 1.04                 | 762.68                                       | 865.37 | 629.67                                            | 696.97 |
| 11                                           | 55.07           | 54.95             | 39.51         | 70.01          | 0.030            | 0.030        | 368.07                | 601.88                  | 855.25                | 6.94                | 8.60                    | 11.06               | 0.99                 | 1.11                   | 1.27                 | 767.41                                       | 868.88 | 645.47                                            | 715.51 |
| <b>Section 243 Cooling Loop 9</b>            |                 |                   |               |                |                  |              |                       |                         |                       |                     |                         |                     |                      |                        |                      |                                              |        |                                                   |        |
| 1                                            | 4.95            | 0.62              | 111.95        | 1288.99        | 0.000            | 0.001        | -14.56                | 25.47                   | 60.75                 | -0.15               | -0.03                   | 0.11                | -0.04                | 0.00                   | 0.02                 | 225.86                                       | 208.00 | 290.00                                            | 272.53 |
| <b>Section 251 Durability Loop 10</b>        |                 |                   |               |                |                  |              |                       |                         |                       |                     |                         |                     |                      |                        |                      |                                              |        |                                                   |        |
| 1                                            | 29.95           | 2.97              | 1.55          | 241.73         | 0.745            | 0.777        | 14628.42              | 15490.95                | 16048.51              | 93.34               | 98.36                   | 101.34              | 2.16                 | 2.23                   | 2.25                 | 202.05                                       | 353.35 | 255.21                                            | 264.82 |
| 2                                            | 50.00           | 2.97              | 3.36          | 335.74         | 0.621            | 0.618        | 12046.29              | 12327.81                | 12662.50              | 81.72               | 86.33                   | 90.05               | 2.03                 | 2.17                   | 2.27                 | 201.06                                       | 483.43 | 232.32                                            | 289.85 |
| 3                                            | 60.02           | 2.97              | 4.83          | 703.03         | 0.528            | 0.524        | 10220.35              | 10438.52                | 10839.68              | 70.80               | 76.20                   | 81.29               | 1.92                 | 2.12                   | 2.25                 | 202.36                                       | 447.04 | 200.96                                            | 286.95 |
| 4                                            | 60.02           | 2.97              | 4.83          | 824.81         | 0.528            | 0.523        | 10209.40              | 10426.01                | 10666.86              | 71.49               | 77.95                   | 83.56               | 1.92                 | 2.14                   | 2.26                 | 202.66                                       | 463.29 | 188.53                                            | 288.71 |
| 5                                            | 70.05           | 2.97              | 8.02          | 750.40         | 0.373            | 0.372        | 7149.48               | 7416.13                 | 7778.98               | 53.79               | 58.83                   | 61.71               | 1.72                 | 1.96                   | 2.10                 | 201.82                                       | 479.69 | 187.84                                            | 316.32 |
| <b>Section 252 Speed Maintenance Loop 10</b> |                 |                   |               |                |                  |              |                       |                         |                       |                     |                         |                     |                      |                        |                      |                                              |        |                                                   |        |
| 1                                            | 54.45           | 54.95             | 34.50         | 1160.04        | 0.028            | 0.029        | 242.95                | 570.60                  | 890.44                | 6.10                | 6.75                    | 8.00                | 0.60                 | 0.69                   | 0.76                 | 154.83                                       | 457.57 | 169.53                                            | 327.01 |
| 2                                            | 54.95           | 55.07             | 34.51         | 70.01          | 0.028            | 0.029        | 224.96                | 569.04                  | 909.99                | 5.90                | 6.67                    | 7.84                | 0.71                 | 0.79                   | 0.86                 | 359.15                                       | 582.92 | 272.68                                            | 415.20 |
| 3                                            | 55.07           | 54.95             | 34.51         | 70.01          | 0.028            | 0.029        | 233.56                | 569.82                  | 900.60                | 5.93                | 6.81                    | 8.05                | 0.80                 | 0.87                   | 0.94                 | 473.21                                       | 638.62 | 347.53                                            | 461.21 |
| 4                                            | 54.95           | 55.07             | 34.50         | 75.01          | 0.037            | 0.037        | 465.82                | 746.55                  | 1017.12               | 7.46                | 8.26                    | 9.19                | 0.94                 | 1.04                   | 1.14                 | 527.84                                       | 647.24 | 389.11                                            | 508.13 |
| 5                                            | 54.95           | 54.95             | 34.50         | 75.03          | 0.037            | 0.037        | 580.77                | 744.20                  | 902.17                | 7.58                | 9.42                    | 10.20               | 1.04                 | 1.17                   | 1.26                 | 583.61                                       | 668.99 | 440.31                                            | 544.37 |
| 6                                            | 55.07           | 54.95             | 34.50         | 75.02          | 0.037            | 0.037        | 536.98                | 741.86                  | 956.12                | 7.55                | 9.31                    | 10.53               | 1.10                 | 1.22                   | 1.32                 | 629.39                                       | 703.32 | 481.12                                            | 567.19 |
| 7                                            | 54.95           | 54.95             | 34.50         | 75.01          | 0.037            | 0.037        | 436.10                | 744.20                  | 1064.04               | 7.49                | 8.87                    | 10.61               | 1.14                 | 1.24                   | 1.36                 | 678.22                                       | 775.65 | 512.41                                            | 602.05 |
| 8                                            | 55.07           | 54.95             | 34.50         | 75.01          | 0.037            | 0.037        | 565.13                | 736.38                  | 913.90                | 7.53                | 9.81                    | 11.30               | 1.17                 | 1.28                   | 1.39                 | 721.48                                       | 805.17 | 548.27                                            | 656.61 |
| 9                                            | 54.95           | 55.07             | 34.51         | 70.03          | 0.019            | 0.019        | 151.46                | 387.62                  | 656.62                | 5.32                | 6.47                    | 7.33                | 1.01                 | 1.07                   | 1.09                 | 755.20                                       | 823.56 | 603.27                                            | 692.39 |
| 10                                           | 55.07           | 54.95             | 34.51         | 69.99          | 0.019            | 0.020        | 149.89                | 390.74                  | 621.43                | 5.17                | 6.56                    | 7.29                | 0.95                 | 1.02                   | 1.05                 | 768.40                                       | 855.84 | 633.79                                            | 702.15 |
| 11                                           | 54.95           | 55.07             | 39.49         | 70.03          | 0.030            | 0.030        | 412.64                | 601.10                  | 805.98                | 7.15                | 8.88                    | 10.74               | 0.99                 | 1.12                   | 1.26                 | 769.01                                       | 874.30 | 648.75                                            | 721.53 |
| <b>Section 253 Cooling Loop 10</b>           |                 |                   |               |                |                  |              |                       |                         |                       |                     |                         |                     |                      |                        |                      |                                              |        |                                                   |        |
| 1                                            | 4.95            | 0.62              | 106.47        | 1297.99        | 0.000            | 0.001        | -17.70                | 26.26                   | 83.42                 | -0.18               | -0.07                   | 0.07                | -0.02                | 0.00                   | 0.02                 | 225.25                                       | 207.39 | 289.39                                            | 272.91 |

Test Request #:  
112305-3-1



Customer Ref:

| Stop #                                | Brake Speed mph | Release Speed mph | Stop Time sec | Cycle Time sec | Ret. Set Point g | Ret. Level g | Torque    |                  |           | Pressure |                |         | Stroke   |                 |          | Drum Temperature |          | Lead Shoe Temperature |          |
|---------------------------------------|-----------------|-------------------|---------------|----------------|------------------|--------------|-----------|------------------|-----------|----------|----------------|---------|----------|-----------------|----------|------------------|----------|-----------------------|----------|
|                                       |                 |                   |               |                |                  |              | Min lb-ft | Avg (Time) lb-ft | Max lb-ft | Min psi  | Avg (Time) psi | Max psi | Min inch | Avg (Time) inch | Max inch | Initial °F       | Final °F | Initial °F            | Final °F |
| Section 311 Durability Loop 11        |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                     | 29.95           | 2.97              | 1.58          | 29.67          | 0.745            | 0.749        | 14139.77  | 14923.19         | 15767.59  | 104.71   | 109.59         | 111.86  | 1.98     | 2.08            | 2.14     | 180.92           | 311.39   | 113.68                | 125.20   |
| 2                                     | 49.26           | 2.97              | 3.32          | 66.97          | 0.621            | 0.617        | 11916.17  | 12303.97         | 12642.51  | 87.98    | 97.73          | 101.87  | 1.84     | 2.05            | 2.15     | 199.38           | 433.38   | 133.82                | 205.39   |
| 3                                     | 59.90           | 2.97              | 4.83          | 422.11         | 0.528            | 0.522        | 10102.26  | 10405.62         | 10794.99  | 68.88    | 78.83          | 86.16   | 1.61     | 1.86            | 2.02     | 200.45           | 445.06   | 155.95                | 244.68   |
| 4                                     | 60.02           | 2.97              | 4.79          | 1028.03        | 0.528            | 0.525        | 10203.12  | 10473.65         | 10773.88  | 68.51    | 74.87          | 79.94   | 1.54     | 1.76            | 1.91     | 200.45           | 485.26   | 161.06                | 256.58   |
| 5                                     | 69.92           | 2.97              | 8.01          | 697.23         | 0.373            | 0.372        | 7064.75   | 7420.50          | 8007.67   | 51.12    | 56.51          | 60.40   | 1.29     | 1.57            | 1.72     | 206.55           | 479.62   | 178.76                | 321.28   |
| Section 312 Speed Maintenance Loop 11 |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                     | 54.45           | 55.07             | 34.50         | 988.98         | 0.028            | 0.028        | 206.31    | 566.75           | 905.29    | 5.27     | 5.99           | 6.76    | 0.22     | 0.31            | 0.38     | 155.05           | 484.20   | 161.06                | 310.45   |
| 2                                     | 54.95           | 54.95             | 34.51         | 70.02          | 0.028            | 0.028        | 196.93    | 565.97           | 949.86    | 5.53     | 6.22           | 7.12    | 0.33     | 0.41            | 0.48     | 382.87           | 625.65   | 269.40                | 391.32   |
| 3                                     | 55.07           | 54.95             | 34.50         | 70.02          | 0.028            | 0.028        | 209.44    | 566.75           | 931.09    | 5.74     | 6.57           | 7.47    | 0.42     | 0.50            | 0.57     | 493.89           | 680.58   | 339.29                | 440.76   |
| 4                                     | 54.95           | 54.95             | 34.51         | 75.01          | 0.037            | 0.037        | 391.61    | 745.79           | 1157.05   | 6.98     | 8.10           | 9.00    | 0.54     | 0.65            | 0.74     | 542.41           | 691.87   | 381.71                | 481.81   |
| 5                                     | 55.07           | 54.95             | 34.52         | 75.02          | 0.037            | 0.037        | 406.47    | 745.79           | 1133.60   | 7.72     | 8.63           | 9.51    | 0.65     | 0.75            | 1.08     | 603.90           | 705.30   | 427.41                | 515.99   |
| 6                                     | 54.95           | 55.07             | 34.51         | 75.04          | 0.037            | 0.037        | 471.36    | 744.23           | 1057.76   | 7.48     | 8.99           | 10.11   | 0.71     | 0.82            | 0.94     | 641.29           | 725.29   | 464.87                | 540.71   |
| 7                                     | 54.95           | 54.95             | 34.51         | 75.01          | 0.037            | 0.037        | 436.96    | 743.45           | 1088.25   | 7.35     | 9.15           | 10.18   | 0.76     | 0.86            | 0.98     | 678.75           | 768.55   | 496.61                | 581.61   |
| 8                                     | 55.07           | 55.07             | 34.51         | 75.00          | 0.037            | 0.037        | 472.15    | 742.67           | 1035.08   | 7.35     | 9.24           | 10.67   | 0.79     | 0.90            | 1.03     | 715.53           | 829.82   | 537.81                | 639.67   |
| 9                                     | 54.95           | 54.95             | 34.50         | 70.01          | 0.019            | 0.019        | 152.37    | 385.36           | 574.57    | 5.17     | 6.57           | 7.34    | 0.68     | 0.75            | 0.78     | 764.05           | 847.67   | 594.35                | 677.97   |
| 10                                    | 54.95           | 54.95             | 34.51         | 70.02          | 0.019            | 0.019        | 147.68    | 385.36           | 633.21    | 5.14     | 6.29           | 7.03    | 0.62     | 0.70            | 0.73     | 763.52           | 887.73   | 627.16                | 683.39   |
| 11                                    | 54.95           | 54.95             | 39.51         | 70.00          | 0.030            | 0.030        | 288.41    | 603.50           | 950.64    | 6.07     | 7.74           | 8.93    | 0.66     | 0.76            | 0.84     | 772.90           | 929.23   | 638.75                | 703.99   |
| Section 313 Cooling Loop 11           |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                     | 4.95            | 0.62              | 61.57         | 1206.17        | 0.000            | 0.003        | -7.34     | 53.07            | 126.57    | 0.01     | 0.13           | 0.23    | -0.04    | -0.02           | -0.01    | 226.31           | 213.50   | 259.48                | 248.19   |
| Section 321 Durability Loop 12        |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                     | 29.95           | 2.97              | 1.52          | 436.02         | 0.745            | 0.793        | 15279.71  | 15812.94         | 16356.33  | 82.63    | 92.93          | 100.11  | 1.87     | 1.91            | 1.94     | 201.21           | 363.80   | 205.92                | 214.16   |
| 2                                     | 50.00           | 2.97              | 3.29          | 321.33         | 0.621            | 0.626        | 12078.01  | 12489.27         | 13171.05  | 78.51    | 80.50          | 81.99   | 1.74     | 1.82            | 1.89     | 201.90           | 496.56   | 194.78                | 249.57   |
| 3                                     | 60.02           | 2.97              | 4.78          | 830.09         | 0.528            | 0.529        | 10174.98  | 10540.10         | 11085.06  | 68.35    | 72.19          | 74.57   | 1.57     | 1.75            | 1.85     | 203.73           | 482.90   | 169.15                | 257.04   |
| 4                                     | 59.90           | 2.97              | 4.75          | 763.36         | 0.528            | 0.528        | 10178.10  | 10533.85         | 11106.95  | 68.42    | 72.25          | 75.01   | 1.61     | 1.77            | 1.89     | 202.13           | 476.49   | 171.59                | 268.56   |
| 5                                     | 69.92           | 2.97              | 7.95          | 659.66         | 0.373            | 0.374        | 6914.64   | 7458.03          | 8017.84   | 51.46    | 55.14          | 57.29   | 1.34     | 1.57            | 1.70     | 201.67           | 478.86   | 179.45                | 310.14   |
| Section 322 Speed Maintenance Loop 12 |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                     | 54.33           | 55.07             | 34.51         | 984.69         | 0.028            | 0.028        | 276.68    | 564.40           | 879.49    | 5.27     | 6.16           | 7.20    | 0.26     | 0.35            | 0.43     | 151.77           | 492.44   | 163.50                | 307.93   |
| 2                                     | 54.95           | 55.07             | 34.51         | 70.04          | 0.028            | 0.028        | 223.52    | 564.40           | 919.37    | 5.20     | 6.32           | 7.24    | 0.36     | 0.46            | 0.52     | 366.39           | 643.35   | 265.66                | 392.39   |
| 3                                     | 54.95           | 54.95             | 34.51         | 70.02          | 0.028            | 0.028        | 260.26    | 562.84           | 905.29    | 5.36     | 6.67           | 7.62    | 0.45     | 0.54            | 0.61     | 479.92           | 677.99   | 337.76                | 442.67   |
| 4                                     | 55.07           | 54.95             | 34.51         | 75.03          | 0.037            | 0.037        | 472.15    | 746.58           | 1067.92   | 6.87     | 8.25           | 9.09    | 0.58     | 0.69            | 0.79     | 532.11           | 680.05   | 380.87                | 495.09   |
| 5                                     | 54.95           | 54.95             | 34.51         | 75.03          | 0.037            | 0.037        | 493.26    | 743.45           | 1034.30   | 7.22     | 8.70           | 9.56    | 0.69     | 0.79            | 0.88     | 595.66           | 695.00   | 431.91                | 522.71   |
| 6                                     | 55.07           | 54.95             | 34.51         | 75.03          | 0.037            | 0.037        | 495.60    | 740.32           | 1035.08   | 6.98     | 9.06           | 9.78    | 0.75     | 0.86            | 0.94     | 636.94           | 704.39   | 468.99                | 541.09   |
| 7                                     | 54.95           | 55.07             | 34.51         | 75.01          | 0.037            | 0.037        | 478.40    | 738.76           | 1053.06   | 6.85     | 9.08           | 9.89    | 0.79     | 0.89            | 0.98     | 668.76           | 739.64   | 495.39                | 576.27   |
| 8                                     | 54.95           | 54.95             | 34.50         | 75.03          | 0.037            | 0.037        | 548.77    | 737.19           | 990.52    | 6.69     | 9.35           | 10.54   | 0.67     | 0.93            | 1.04     | 700.65           | 794.80   | 531.63                | 630.05   |
| 9                                     | 55.07           | 55.07             | 34.51         | 70.01          | 0.019            | 0.019        | 112.49    | 383.01           | 556.59    | 4.81     | 6.54           | 7.76    | 0.69     | 0.78            | 0.81     | 752.22           | 828.75   | 586.79                | 676.21   |
| 10                                    | 54.95           | 54.95             | 34.50         | 70.01          | 0.019            | 0.019        | 117.96    | 382.23           | 598.02    | 4.78     | 6.29           | 7.52    | 0.65     | 0.73            | 0.76     | 757.34           | 873.61   | 623.19                | 687.35   |
| 11                                    | 54.95           | 54.95             | 39.50         | 70.01          | 0.030            | 0.030        | 324.37    | 601.93           | 928.75    | 6.00     | 7.83           | 8.42    | 0.69     | 0.78            | 0.85     | 767.79           | 938.31   | 638.29                | 712.07   |
| Section 323 Cooling Loop 12           |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                     | 4.95            | 0.62              | 79.45         | 1179.51        | 0.000            | 0.002        | -7.34     | 40.53            | 98.42     | 0.01     | 0.12           | 0.23    | -0.04    | -0.02           | 0.00     | 226.24           | 212.35   | 268.56                | 254.37   |

Test Request #:  
112305-3-1



Customer Ref:

| Stop #                                | Brake Speed mph | Release Speed mph | Stop Time sec | Cycle Time sec | Ret. Set Point g | Ret. Level g | Torque    |                  |           | Pressure |                |         | Stroke   |                 |          | Drum Temperature |          | Lead Shoe Temperature |          |
|---------------------------------------|-----------------|-------------------|---------------|----------------|------------------|--------------|-----------|------------------|-----------|----------|----------------|---------|----------|-----------------|----------|------------------|----------|-----------------------|----------|
|                                       |                 |                   |               |                |                  |              | Min lb-ft | Avg (Time) lb-ft | Max lb-ft | Min psi  | Avg (Time) psi | Max psi | Min inch | Avg (Time) inch | Max inch | Initial °F       | Final °F | Initial °F            | Final °F |
| Section 331 Durability Loop 13        |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                     | 30.07           | 2.97              | 1.51          | 232.60         | 0.745            | 0.797        | 15590.89  | 15897.38         | 16160.87  | 78.61    | 90.62          | 100.28  | 1.84     | 1.91            | 1.95     | 200.45           | 375.40   | 231.48                | 240.56   |
| 2                                     | 50.00           | 2.97              | 3.31          | 269.32         | 0.621            | 0.627        | 12171.06  | 12504.91         | 12975.59  | 77.99    | 79.56          | 81.08   | 1.71     | 1.80            | 1.87     | 199.99           | 507.47   | 219.81                | 277.18   |
| 3                                     | 60.02           | 2.97              | 4.76          | 524.57         | 0.528            | 0.528        | 10093.66  | 10530.72         | 11238.30  | 64.71    | 71.02          | 74.57   | 1.59     | 1.76            | 1.88     | 201.14           | 467.49   | 204.32                | 294.81   |
| 4                                     | 60.02           | 2.97              | 4.76          | 681.78         | 0.528            | 0.528        | 10210.94  | 10532.29         | 11176.53  | 66.19    | 70.91          | 74.04   | 1.61     | 1.77            | 1.89     | 201.90           | 454.44   | 193.18                | 288.71   |
| 5                                     | 70.05           | 2.97              | 8.00          | 628.09         | 0.373            | 0.375        | 7098.37   | 7476.01          | 7963.89   | 51.89    | 55.54          | 58.02   | 1.36     | 1.59            | 1.72     | 202.05           | 481.30   | 193.18                | 331.05   |
| Section 332 Speed Maintenance Loop 13 |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                     | 54.33           | 55.07             | 34.51         | 1008.74        | 0.028            | 0.028        | 241.50    | 566.75           | 888.87    | 5.56     | 6.28           | 7.20    | 0.31     | 0.39            | 0.46     | 152.38           | 535.54   | 168.31                | 324.56   |
| 2                                     | 54.95           | 54.95             | 34.50         | 70.04          | 0.028            | 0.028        | 209.44    | 565.97           | 955.33    | 5.74     | 6.43           | 7.36    | 0.41     | 0.49            | 0.56     | 380.97           | 659.14   | 273.37                | 397.05   |
| 3                                     | 55.07           | 54.95             | 34.51         | 70.03          | 0.028            | 0.028        | 225.08    | 565.19           | 934.22    | 6.05     | 6.72           | 7.71    | 0.50     | 0.58            | 0.64     | 494.80           | 659.30   | 341.35                | 449.77   |
| 4                                     | 54.95           | 54.95             | 34.50         | 74.99          | 0.037            | 0.037        | 436.18    | 746.58           | 1092.94   | 7.28     | 8.27           | 9.22    | 0.26     | 0.73            | 0.82     | 532.26           | 649.38   | 383.92                | 501.27   |
| 5                                     | 55.07           | 54.95             | 34.51         | 75.04          | 0.037            | 0.037        | 444.00    | 747.36           | 1090.59   | 7.38     | 8.62           | 9.51    | 0.72     | 0.82            | 0.91     | 588.87           | 664.33   | 434.81                | 530.11   |
| 6                                     | 54.95           | 55.07             | 34.52         | 75.01          | 0.037            | 0.037        | 478.40    | 745.01           | 1053.06   | 7.40     | 8.97           | 9.73    | 0.79     | 0.89            | 0.97     | 630.53           | 687.60   | 472.05                | 548.95   |
| 7                                     | 55.07           | 54.95             | 34.51         | 75.01          | 0.037            | 0.037        | 460.42    | 741.10           | 1071.83   | 7.30     | 9.17           | 10.06   | 0.83     | 0.94            | 1.04     | 661.20           | 718.35   | 499.21                | 579.55   |
| 8                                     | 54.95           | 55.07             | 34.51         | 75.03          | 0.037            | 0.037        | 483.87    | 743.45           | 1006.15   | 6.89     | 9.12           | 10.33   | 0.87     | 0.98            | 1.09     | 688.98           | 780.15   | 533.39                | 638.29   |
| 9                                     | 54.95           | 55.07             | 34.50         | 70.05          | 0.019            | 0.019        | 117.18    | 385.36           | 549.55    | 4.92     | 6.56           | 7.71    | 0.74     | 0.82            | 0.85     | 753.14           | 825.24   | 592.97                | 690.25   |
| 10                                    | 54.95           | 54.95             | 34.50         | 70.01          | 0.019            | 0.019        | 119.53    | 384.58           | 684.81    | 5.04     | 6.23           | 7.20    | 0.70     | 0.77            | 0.79     | 761.30           | 845.54   | 631.43                | 694.45   |
| 11                                    | 54.95           | 55.07             | 39.51         | 70.01          | 0.030            | 0.030        | 286.06    | 605.06           | 973.32    | 6.22     | 7.68           | 8.53    | 0.73     | 0.82            | 0.89     | 766.87           | 868.50   | 642.87                | 713.45   |
| Section 333 Cooling Loop 13           |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                     | 5.07            | 0.62              | 89.67         | 1176.48        | 0.000            | 0.002        | -27.74    | 35.04            | 86.69     | 0.01     | 0.11           | 0.23    | -0.04    | -0.02           | 0.00     | 226.31           | 208.69   | 276.65                | 260.17   |
| Section 341 Durability Loop 14        |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                     | 30.07           | 2.97              | 1.56          | 231.40         | 0.745            | 0.797        | 15433.74  | 15888.00         | 16198.40  | 82.39    | 93.82          | 102.99  | 1.90     | 1.96            | 1.99     | 202.82           | 388.44   | 238.73                | 248.34   |
| 2                                     | 50.00           | 2.97              | 3.29          | 359.75         | 0.621            | 0.628        | 12098.34  | 12527.58         | 13013.11  | 80.15    | 82.24          | 84.65   | 1.78     | 1.87            | 1.93     | 201.82           | 482.29   | 214.01                | 274.97   |
| 3                                     | 60.02           | 2.97              | 4.77          | 528.99         | 0.528            | 0.529        | 10187.49  | 10539.32         | 11113.20  | 68.19    | 74.23          | 77.74   | 1.64     | 1.82            | 1.93     | 201.98           | 463.98   | 200.05                | 297.78   |
| 4                                     | 60.02           | 2.97              | 4.78          | 697.73         | 0.528            | 0.528        | 10222.67  | 10535.41         | 11081.15  | 68.77    | 73.49          | 76.15   | 1.64     | 1.80            | 1.91     | 200.60           | 458.48   | 189.75                | 294.12   |
| 5                                     | 69.92           | 2.97              | 7.96          | 655.53         | 0.373            | 0.374        | 7103.07   | 7456.46          | 7960.76   | 50.87    | 56.57          | 59.95   | 1.42     | 1.65            | 1.78     | 201.67           | 476.87   | 188.53                | 341.73   |
| Section 342 Speed Maintenance Loop 14 |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                     | 54.45           | 54.95             | 34.50         | 1014.25        | 0.028            | 0.028        | 275.12    | 562.84           | 847.44    | 5.46     | 6.35           | 7.57    | 0.36     | 0.45            | 0.53     | 153.07           | 460.09   | 167.09                | 312.89   |
| 2                                     | 54.95           | 55.07             | 34.50         | 70.01          | 0.028            | 0.028        | 196.93    | 564.40           | 943.60    | 5.07     | 6.37           | 7.52    | 0.46     | 0.55            | 0.62     | 362.35           | 652.89   | 265.97                | 399.79   |
| 3                                     | 54.95           | 54.95             | 34.51         | 70.03          | 0.028            | 0.028        | 268.08    | 563.62           | 882.62    | 5.32     | 6.75           | 7.70    | 0.55     | 0.64            | 0.71     | 481.37           | 681.65   | 338.98                | 453.81   |
| 4                                     | 55.07           | 55.07             | 34.50         | 75.01          | 0.037            | 0.037        | 446.34    | 745.79           | 1079.65   | 6.58     | 8.25           | 9.15    | 0.67     | 0.79            | 0.89     | 527.69           | 678.68   | 382.63                | 509.96   |
| 5                                     | 54.95           | 54.95             | 34.51         | 75.02          | 0.037            | 0.037        | 448.69    | 743.45           | 1095.28   | 6.76     | 8.42           | 9.29    | 0.77     | 0.88            | 0.97     | 598.64           | 681.42   | 436.87                | 541.09   |
| 6                                     | 55.07           | 54.95             | 34.51         | 75.02          | 0.037            | 0.037        | 441.65    | 745.79           | 1107.79   | 6.42     | 8.74           | 9.62    | 0.82     | 0.95            | 1.04     | 641.06           | 698.89   | 476.85                | 558.41   |
| 7                                     | 54.95           | 55.07             | 34.50         | 75.01          | 0.037            | 0.037        | 533.13    | 736.41           | 1004.59   | 6.56     | 9.35           | 10.31   | 0.88     | 1.01            | 1.11     | 670.59           | 718.50   | 503.17                | 577.33   |
| 8                                     | 54.95           | 54.95             | 34.51         | 75.04          | 0.037            | 0.037        | 487.78    | 742.67           | 1049.16   | 6.71     | 9.37           | 10.64   | 0.92     | 1.04            | 1.16     | 688.52           | 761.61   | 529.19                | 619.75   |
| 9                                     | 54.95           | 55.07             | 34.50         | 70.00          | 0.019            | 0.019        | 45.24     | 386.92           | 657.45    | 4.55     | 6.29           | 7.51    | 0.67     | 0.88            | 1.08     | 749.17           | 805.56   | 577.87                | 678.43   |
| 10                                    | 54.95           | 54.95             | 34.51         | 70.03          | 0.019            | 0.019        | 114.84    | 376.76           | 576.91    | 4.55     | 6.28           | 7.77    | 0.74     | 0.83            | 0.88     | 751.16           | 831.34   | 621.81                | 692.85   |
| 11                                    | 55.07           | 54.95             | 39.51         | 69.99          | 0.030            | 0.030        | 312.65    | 601.93           | 941.26    | 5.80     | 7.72           | 8.56    | 0.79     | 0.88            | 0.95     | 751.16           | 856.45   | 639.29                | 726.87   |
| Section 343 Cooling Loop 14           |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                     | 4.95            | 0.62              | 96.08         | 1157.99        | 0.000            | 0.002        | -16.76    | 32.68            | 78.09     | 0.01     | 0.11           | 0.23    | -0.02    | 0.00            | 0.01     | 225.86           | 208.92   | 282.14                | 263.99   |

Test Request #:  
112305-3-1



Customer Ref:

| Stop #                                | Brake Speed mph | Release Speed mph | Stop Time sec | Cycle Time sec | Ret. Set Point g | Ret. Level g | Torque    |                  |           | Pressure |                |         | Stroke   |                 |          | Drum Temperature |          | Lead Shoe Temperature |          |
|---------------------------------------|-----------------|-------------------|---------------|----------------|------------------|--------------|-----------|------------------|-----------|----------|----------------|---------|----------|-----------------|----------|------------------|----------|-----------------------|----------|
|                                       |                 |                   |               |                |                  |              | Min lb-ft | Avg (Time) lb-ft | Max lb-ft | Min psi  | Avg (Time) psi | Max psi | Min inch | Avg (Time) inch | Max inch | Initial °F       | Final °F | Initial °F            | Final °F |
| Section 351 Durability Loop 15        |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                     | 30.07           | 2.97              | 1.52          | 210.95         | 0.745            | 0.811        | 15765.25  | 16164.78         | 16525.21  | 77.77    | 92.40          | 105.33  | 1.91     | 2.01            | 2.06     | 200.60           | 382.57   | 246.13                | 255.36   |
| 2                                     | 50.00           | 2.97              | 3.31          | 274.94         | 0.621            | 0.628        | 12192.95  | 12526.02         | 12983.40  | 80.24    | 81.84          | 83.89   | 1.80     | 1.89            | 1.95     | 200.15           | 496.10   | 229.27                | 288.71   |
| 3                                     | 60.02           | 2.97              | 4.77          | 602.11         | 0.528            | 0.529        | 10194.52  | 10541.67         | 11089.75  | 68.64    | 74.50          | 78.08   | 1.67     | 1.84            | 1.95     | 201.14           | 459.48   | 200.43                | 297.40   |
| 4                                     | 60.02           | 2.97              | 4.77          | 677.12         | 0.528            | 0.529        | 10234.40  | 10550.27         | 11090.53  | 69.35    | 73.80          | 76.27   | 1.68     | 1.84            | 1.95     | 202.21           | 462.45   | 189.75                | 293.97   |
| 5                                     | 70.05           | 2.97              | 7.98          | 627.53         | 0.373            | 0.374        | 7090.56   | 7452.56          | 7992.04   | 50.92    | 57.31          | 61.12   | 1.46     | 1.69            | 1.83     | 202.13           | 470.16   | 189.75                | 338.83   |
| Section 352 Speed Maintenance Loop 15 |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                     | 54.45           | 55.07             | 34.52         | 1004.53        | 0.028            | 0.028        | 271.99    | 562.84           | 877.93    | 5.68     | 6.51           | 7.67    | 0.40     | 0.49            | 0.57     | 152.54           | 394.40   | 167.47                | 313.04   |
| 2                                     | 54.95           | 54.95             | 34.49         | 70.01          | 0.028            | 0.028        | 193.02    | 565.97           | 952.99    | 5.30     | 6.43           | 7.76    | 0.50     | 0.59            | 0.66     | 335.11           | 478.86   | 264.82                | 402.39   |
| 3                                     | 54.95           | 54.95             | 34.52         | 70.01          | 0.028            | 0.028        | 236.81    | 565.19           | 924.84    | 5.30     | 6.76           | 8.02    | 0.58     | 0.68            | 0.74     | 424.84           | 544.85   | 338.98                | 447.33   |
| 4                                     | 54.95           | 54.95             | 34.52         | 75.00          | 0.037            | 0.037        | 436.18    | 745.01           | 1078.87   | 6.80     | 8.25           | 9.29    | 0.72     | 0.84            | 0.93     | 482.59           | 581.17   | 378.81                | 500.43   |
| 5                                     | 54.95           | 54.95             | 34.49         | 75.01          | 0.037            | 0.037        | 429.14    | 744.23           | 1083.56   | 6.69     | 8.46           | 9.53    | 0.81     | 0.92            | 1.01     | 556.98           | 625.73   | 430.69                | 536.29   |
| 6                                     | 54.95           | 54.95             | 34.50         | 75.03          | 0.037            | 0.037        | 433.83    | 742.67           | 1097.63   | 6.59     | 8.87           | 9.62    | 0.87     | 0.98            | 1.07     | 609.32           | 659.07   | 471.89                | 551.01   |
| 7                                     | 55.07           | 54.95             | 34.51         | 75.00          | 0.037            | 0.037        | 452.60    | 740.32           | 1069.48   | 6.19     | 8.94           | 9.87    | 0.88     | 1.03            | 1.11     | 646.02           | 695.99   | 495.93                | 578.17   |
| 8                                     | 54.95           | 55.07             | 34.50         | 75.01          | 0.037            | 0.037        | 568.31    | 738.76           | 1006.93   | 6.51     | 9.65           | 10.66   | 0.94     | 1.08            | 1.17     | 678.37           | 737.42   | 528.89                | 631.05   |
| 9                                     | 55.07           | 54.95             | 34.50         | 70.01          | 0.019            | 0.019        | 77.31     | 383.80           | 687.16    | 4.60     | 6.26           | 7.55    | 0.82     | 0.91            | 0.94     | 728.27           | 775.57   | 582.45                | 673.77   |
| 10                                    | 54.95           | 55.07             | 34.50         | 70.03          | 0.019            | 0.019        | 91.38     | 385.36           | 631.64    | 4.42     | 6.11           | 7.57    | 0.76     | 0.86            | 0.90     | 739.03           | 796.93   | 617.01                | 684.07   |
| 11                                    | 54.95           | 55.07             | 39.52         | 70.03          | 0.030            | 0.030        | 300.92    | 601.93           | 952.20    | 5.38     | 7.76           | 8.60    | 0.80     | 0.91            | 0.97     | 737.88           | 819.90   | 631.05                | 712.07   |
| Section 353 Cooling Loop 15           |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                     | 4.95            | 0.62              | 96.52         | 1136.74        | 0.000            | 0.002        | -11.26    | 32.68            | 74.96     | -0.01    | 0.11           | 0.26    | -0.04    | -0.02           | 0.00     | 225.40           | 208.92   | 286.57                | 269.25   |
| Section 411 Durability Loop 16        |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                     | 29.95           | 2.97              | 1.64          | 61.01          | 0.745            | 0.752        | 14432.87  | 14997.45         | 15527.62  | 110.56   | 113.68         | 115.69  | 2.49     | 2.56            | 2.60     | 200.30           | 311.61   | 125.05                | 133.29   |
| 2                                     | 49.88           | 2.97              | 3.37          | 118.07         | 0.621            | 0.619        | 12189.41  | 12349.71         | 12588.99  | 89.89    | 95.12          | 98.52   | 2.33     | 2.47            | 2.55     | 200.07           | 424.38   | 132.91                | 184.10   |
| 3                                     | 60.02           | 2.97              | 4.83          | 329.94         | 0.528            | 0.525        | 10130.50  | 10471.43         | 11300.32  | 70.32    | 77.76          | 82.98   | 2.15     | 2.31            | 2.44     | 202.43           | 461.38   | 147.48                | 228.05   |
| 4                                     | 60.02           | 2.97              | 4.78          | 506.87         | 0.528            | 0.528        | 10146.14  | 10520.70         | 11316.74  | 69.77    | 74.81          | 78.67   | 2.09     | 2.24            | 2.36     | 200.76           | 494.19   | 163.81                | 252.77   |
| 5                                     | 69.92           | 2.97              | 7.98          | 520.60         | 0.373            | 0.373        | 6962.76   | 7443.67          | 8302.26   | 49.68    | 55.61          | 58.16   | 1.81     | 2.02            | 2.15     | 201.06           | 492.74   | 174.87                | 298.47   |
| Section 412 Speed Maintenance Loop 16 |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                     | 54.33           | 54.95             | 34.50         | 917.77         | 0.028            | 0.028        | 275.39    | 559.25           | 858.74    | 5.61     | 6.87           | 8.75    | 0.71     | 0.81            | 0.88     | 152.31           | 429.57   | 163.35                | 286.11   |
| 2                                     | 54.95           | 55.07             | 34.51         | 70.02          | 0.028            | 0.028        | 193.29    | 560.81           | 931.46    | 4.77     | 6.62           | 8.78    | 0.78     | 0.91            | 0.97     | 346.86           | 505.25   | 256.58                | 370.72   |
| 3                                     | 54.95           | 54.95             | 34.51         | 70.00          | 0.028            | 0.028        | 172.17    | 559.25           | 868.90    | 4.68     | 6.90           | 8.96    | 0.85     | 0.99            | 1.05     | 436.97           | 559.20   | 328.99                | 418.49   |
| 4                                     | 54.95           | 55.07             | 34.49         | 75.02          | 0.037            | 0.037        | 371.57    | 737.53           | 1068.31   | 5.35     | 8.27           | 10.13   | 0.97     | 1.16            | 1.25     | 488.55           | 602.00   | 368.89                | 480.67   |
| 5                                     | 54.95           | 55.07             | 34.51         | 75.05          | 0.037            | 0.037        | 387.21    | 736.75           | 1063.61   | 5.30     | 8.67           | 10.43   | 1.06     | 1.25            | 1.34     | 552.02           | 636.25   | 424.67                | 521.71   |
| 6                                     | 54.95           | 54.95             | 34.51         | 74.99          | 0.037            | 0.037        | 423.18    | 730.50           | 1079.25   | 5.44     | 9.14           | 10.58   | 1.10     | 1.30            | 1.39     | 601.69           | 660.06   | 467.77                | 539.49   |
| 7                                     | 54.95           | 55.07             | 34.51         | 75.01          | 0.037            | 0.037        | 415.36    | 732.06           | 1075.34   | 5.44     | 9.02           | 10.45   | 1.12     | 1.32            | 1.41     | 639.99           | 702.63   | 492.49                | 556.73   |
| 8                                     | 55.07           | 54.95             | 34.51         | 74.99          | 0.037            | 0.037        | 340.30    | 738.32           | 1093.33   | 5.26     | 8.74           | 10.63   | 1.12     | 1.33            | 1.42     | 678.22           | 736.89   | 516.37                | 593.43   |
| 9                                     | 54.95           | 54.95             | 34.50         | 70.03          | 0.019            | 0.019        | 105.71    | 379.39           | 615.55    | 4.47     | 6.59           | 8.07    | 1.04     | 1.14            | 1.93     | 720.64           | 759.85   | 562.53                | 637.91   |
| 10                                    | 54.95           | 54.95             | 34.52         | 70.02          | 0.019            | 0.019        | 70.52     | 379.39           | 734.41    | 4.39     | 6.26           | 7.81    | 0.98     | 1.08            | 1.12     | 719.80           | 787.32   | 597.09                | 648.59   |
| 11                                    | 54.95           | 54.95             | 39.50         | 70.02          | 0.030            | 0.030        | 248.81    | 598.34           | 967.43    | 5.23     | 7.87           | 9.32    | 1.03     | 1.17            | 1.22     | 734.07           | 817.61   | 611.13                | 677.59   |
| Section 413 Cooling Loop 16           |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                     | 4.95            | 0.62              | 109.71        | 1076.33        | 0.000            | 0.001        | -20.43    | 19.60            | 56.44     | -0.06    | 0.07           | 0.19    | -0.01    | 0.01            | 0.02     | 224.79           | 202.66   | 297.63                | 278.02   |

Test Request #:  
112305-3-1



Customer Ref:

| Stop #                                       | Brake Speed mph | Release Speed mph | Stop Time sec | Cycle Time sec | Ret. Set Point g | Ret. Level g | -----<br>Min<br>lb-ft | Torque Avg (Time) lb-ft | -----<br>Max<br>lb-ft | -----<br>Min<br>psi | Pressure Avg (Time) psi | -----<br>Max<br>psi | -----<br>Min<br>inch | Stroke Avg (Time) inch | -----<br>Max<br>inch | Drum Temperature<br>Initial °F      Final °F |        | Lead Shoe Temperature<br>Initial °F      Final °F |        |
|----------------------------------------------|-----------------|-------------------|---------------|----------------|------------------|--------------|-----------------------|-------------------------|-----------------------|---------------------|-------------------------|---------------------|----------------------|------------------------|----------------------|----------------------------------------------|--------|---------------------------------------------------|--------|
| <b>Section 421 Durability Loop 17</b>        |                 |                   |               |                |                  |              |                       |                         |                       |                     |                         |                     |                      |                        |                      |                                              |        |                                                   |        |
| 1                                            | 29.45           | 2.97              | 1.51          | 123.36         | 0.745            | 0.823        | 15492.43              | 16408.89                | 16762.34              | 85.02               | 100.61                  | 112.39              | 2.21                 | 2.29                   | 2.33                 | 199.99                                       | 340.45 | 276.27                                            | 278.33 |
| 2                                            | 50.00           | 2.97              | 3.32          | 280.29         | 0.621            | 0.633        | 12000.17              | 12620.27                | 13520.31              | 79.08               | 82.62                   | 91.03               | 2.10                 | 2.14                   | 2.18                 | 202.74                                       | 473.36 | 246.28                                            | 279.24 |
| 3                                            | 59.90           | 2.97              | 4.75          | 492.82         | 0.528            | 0.530        | 10183.67              | 10570.74                | 11355.05              | 68.57               | 73.43                   | 76.18               | 1.93                 | 2.07                   | 2.16                 | 200.15                                       | 479.62 | 216.68                                            | 284.89 |
| 4                                            | 60.02           | 2.97              | 4.80          | 609.33         | 0.528            | 0.530        | 10239.97              | 10568.40                | 11275.29              | 69.71               | 72.84                   | 74.27               | 1.94                 | 2.07                   | 2.16                 | 200.83                                       | 484.12 | 197.99                                            | 272.23 |
| 5                                            | 70.05           | 2.97              | 7.98          | 645.75         | 0.373            | 0.375        | 7077.71               | 7468.69                 | 8074.71               | 52.76               | 56.70                   | 59.26               | 0.28                 | 1.91                   | 2.04                 | 200.53                                       | 479.47 | 184.94                                            | 301.90 |
| <b>Section 422 Speed Maintenance Loop 17</b> |                 |                   |               |                |                  |              |                       |                         |                       |                     |                         |                     |                      |                        |                      |                                              |        |                                                   |        |
| 1                                            | 54.33           | 54.95             | 34.49         | 911.15         | 0.028            | 0.028        | 230.04                | 560.81                  | 891.58                | 6.09                | 6.99                    | 8.81                | 0.67                 | 0.76                   | 0.82                 | 152.99                                       | 451.77 | 165.94                                            | 291.07 |
| 2                                            | 54.95           | 54.95             | 34.51         | 70.04          | 0.028            | 0.028        | 166.70                | 560.81                  | 1013.57               | 5.33                | 6.83                    | 8.58                | 0.75                 | 0.85                   | 0.90                 | 359.15                                       | 524.71 | 260.55                                            | 377.29 |
| 3                                            | 55.07           | 54.95             | 34.50         | 70.00          | 0.028            | 0.028        | 193.29                | 561.59                  | 951.01                | 5.53                | 7.08                    | 8.92                | 0.84                 | 0.94                   | 0.99                 | 456.58                                       | 581.09 | 333.11                                            | 423.29 |
| 4                                            | 54.95           | 54.95             | 34.50         | 75.04          | 0.037            | 0.037        | 380.96                | 739.10                  | 1129.30               | 6.27                | 8.52                    | 10.46               | 0.97                 | 1.10                   | 1.19                 | 505.64                                       | 617.18 | 371.11                                            | 480.67 |
| 5                                            | 55.07           | 54.95             | 34.50         | 75.02          | 0.037            | 0.037        | 405.98                | 735.97                  | 1074.56               | 6.25                | 8.90                    | 10.60               | 1.06                 | 1.22                   | 1.31                 | 557.90                                       | 642.89 | 424.13                                            | 518.20 |
| 6                                            | 54.95           | 54.95             | 34.51         | 75.04          | 0.037            | 0.037        | 427.09                | 733.62                  | 1065.96               | 6.47                | 9.41                    | 10.55               | 1.14                 | 1.27                   | 1.35                 | 601.77                                       | 653.96 | 463.27                                            | 527.89 |
| 7                                            | 54.95           | 54.95             | 34.51         | 74.99          | 0.037            | 0.037        | 394.25                | 735.97                  | 1114.44               | 6.00                | 9.00                    | 10.45               | 1.11                 | 1.29                   | 1.38                 | 638.70                                       | 688.90 | 481.89                                            | 545.37 |
| 8                                            | 54.95           | 54.95             | 34.51         | 75.04          | 0.037            | 0.037        | 444.30                | 735.97                  | 1030.77               | 5.76                | 9.24                    | 10.55               | 1.12                 | 1.31                   | 1.39                 | 669.98                                       | 729.87 | 508.97                                            | 596.03 |
| 9                                            | 54.95           | 54.95             | 34.52         | 70.00          | 0.019            | 0.019        | 124.47                | 378.61                  | 688.27                | 4.95                | 6.52                    | 7.73                | 0.27                 | 1.10                   | 1.93                 | 721.71                                       | 778.70 | 565.13                                            | 641.19 |
| 10                                           | 55.07           | 54.95             | 34.50         | 70.02          | 0.019            | 0.019        | 83.03                 | 378.61                  | 673.41                | 4.59                | 6.47                    | 7.75                | 0.96                 | 1.06                   | 1.08                 | 734.45                                       | 800.44 | 597.55                                            | 643.41 |
| 11                                           | 54.95           | 54.95             | 39.49         | 70.03          | 0.030            | 0.030        | 258.97                | 597.56                  | 962.74                | 5.37                | 7.97                    | 9.23                | 1.00                 | 1.12                   | 1.18                 | 735.59                                       | 832.95 | 606.33                                            | 664.24 |
| <b>Section 423 Cooling Loop 17</b>           |                 |                   |               |                |                  |              |                       |                         |                       |                     |                         |                     |                      |                        |                      |                                              |        |                                                   |        |
| 1                                            | 4.95            | 0.62              | 110.42        | 1075.53        | 0.000            | 0.001        | -18.08                | 21.95                   | 54.10                 | -0.05               | 0.07                    | 0.19                | -0.02                | 0.01                   | 0.03                 | 225.02                                       | 203.35 | 296.41                                            | 275.96 |
| <b>Section 431 Durability Loop 18</b>        |                 |                   |               |                |                  |              |                       |                         |                       |                     |                         |                     |                      |                        |                      |                                              |        |                                                   |        |
| 1                                            | 29.45           | 2.97              | 1.53          | 124.25         | 0.745            | 0.822        | 15081.90              | 16379.96                | 16891.36              | 87.98               | 103.66                  | 113.95              | 2.20                 | 2.27                   | 2.31                 | 200.15                                       | 350.60 | 274.29                                            | 276.35 |
| 2                                            | 50.00           | 2.97              | 3.32          | 268.92         | 0.621            | 0.633        | 12028.33              | 12624.96                | 13449.94              | 79.49               | 83.16                   | 92.20               | 2.07                 | 2.11                   | 2.16                 | 201.06                                       | 484.12 | 247.51                                            | 280.92 |
| 3                                            | 59.90           | 2.97              | 4.77          | 538.62         | 0.528            | 0.531        | 10236.06              | 10587.16                | 11357.40              | 69.27               | 73.26                   | 75.73               | 1.90                 | 2.04                   | 2.13                 | 200.98                                       | 473.51 | 212.41                                            | 284.05 |
| 4                                            | 60.02           | 2.97              | 4.75          | 593.68         | 0.528            | 0.531        | 10275.94              | 10591.07                | 11319.87              | 69.43               | 71.67                   | 73.82               | 1.91                 | 2.03                   | 2.12                 | 201.52                                       | 490.22 | 196.31                                            | 275.43 |
| 5                                            | 69.92           | 2.97              | 7.96          | 605.32         | 0.373            | 0.375        | 7103.51               | 7474.16                 | 8195.13               | 50.82               | 54.97                   | 57.46               | 1.66                 | 1.86                   | 1.98                 | 201.21                                       | 476.64 | 187.69                                            | 311.21 |
| <b>Section 432 Speed Maintenance Loop 18</b> |                 |                   |               |                |                  |              |                       |                         |                       |                     |                         |                     |                      |                        |                      |                                              |        |                                                   |        |
| 1                                            | 54.45           | 54.95             | 34.52         | 924.08         | 0.028            | 0.028        | 251.15                | 560.03                  | 897.06                | 5.99                | 6.89                    | 8.57                | 0.64                 | 0.74                   | 0.81                 | 152.46                                       | 488.93 | 166.63                                            | 284.59 |
| 2                                            | 54.95           | 54.95             | 34.51         | 70.02          | 0.028            | 0.028        | 214.40                | 561.59                  | 940.85                | 5.36                | 6.81                    | 8.58                | 0.74                 | 0.84                   | 0.90                 | 377.08                                       | 582.39 | 256.43                                            | 369.88 |
| 3                                            | 55.07           | 54.95             | 34.51         | 70.02          | 0.028            | 0.028        | 214.40                | 560.03                  | 906.44                | 5.46                | 7.10                    | 8.73                | 0.83                 | 0.93                   | 0.99                 | 487.10                                       | 612.68 | 326.62                                            | 419.17 |
| 4                                            | 54.95           | 55.07             | 34.50         | 75.03          | 0.037            | 0.037        | 408.33                | 737.53                  | 1098.80               | 6.49                | 8.67                    | 10.39               | 0.97                 | 1.10                   | 1.18                 | 523.11                                       | 615.20 | 366.45                                            | 483.18 |
| 5                                            | 55.07           | 54.95             | 34.50         | 75.00          | 0.037            | 0.037        | 427.09                | 735.19                  | 1075.34               | 6.59                | 8.98                    | 10.67               | 1.08                 | 1.20                   | 1.29                 | 567.28                                       | 632.44 | 422.91                                            | 521.33 |
| 6                                            | 54.95           | 55.07             | 34.50         | 75.02          | 0.037            | 0.037        | 424.75                | 730.50                  | 1070.65               | 6.43                | 9.44                    | 10.54               | 1.10                 | 1.25                   | 1.33                 | 602.30                                       | 642.43 | 463.81                                            | 528.35 |
| 7                                            | 54.95           | 54.95             | 34.50         | 75.03          | 0.037            | 0.037        | 450.55                | 734.41                  | 1065.96               | 6.15                | 9.10                    | 10.50               | 1.08                 | 1.27                   | 1.35                 | 627.40                                       | 674.02 | 481.51                                            | 539.19 |
| 8                                            | 55.07           | 54.95             | 34.50         | 75.03          | 0.037            | 0.036        | 451.34                | 727.37                  | 1046.41               | 5.73                | 9.16                    | 10.54               | 1.07                 | 1.28                   | 1.35                 | 669.44                                       | 707.82 | 503.17                                            | 592.29 |
| 9                                            | 54.95           | 55.07             | 34.51         | 70.00          | 0.019            | 0.019        | 56.44                 | 377.83                  | 681.23                | 4.79                | 6.52                    | 7.95                | 0.99                 | 1.08                   | 1.11                 | 697.52                                       | 761.00 | 560.63                                            | 634.71 |
| 10                                           | 55.07           | 54.95             | 34.50         | 70.02          | 0.019            | 0.019        | 82.25                 | 379.39                  | 655.43                | 4.57                | 6.44                    | 7.83                | 0.93                 | 1.04                   | 1.06                 | 722.24                                       | 785.41 | 590.69                                            | 641.58 |
| 11                                           | 54.95           | 55.07             | 39.52         | 70.03          | 0.030            | 0.030        | 265.23                | 595.22                  | 957.27                | 5.33                | 7.97                    | 9.20                | 0.97                 | 1.09                   | 1.15                 | 725.83                                       | 810.97 | 603.05                                            | 671.03 |
| <b>Section 433 Cooling Loop 18</b>           |                 |                   |               |                |                  |              |                       |                         |                       |                     |                         |                     |                      |                        |                      |                                              |        |                                                   |        |
| 1                                            | 4.95            | 0.62              | 103.70        | 1077.86        | 0.000            | 0.001        | -11.01                | 25.09                   | 64.26                 | -0.08               | 0.04                    | 0.15                | -0.01                | 0.01                   | 0.02                 | 226.16                                       | 203.65 | 293.51                                            | 274.74 |

Test Request #:  
112305-3-1



Customer Ref:

| Stop #                                | Brake Speed mph | Release Speed mph | Stop Time sec | Cycle Time sec | Ret. Set Point g | Ret. Level g | Torque    |                  |           | Pressure |                |         | Stroke   |                 |          | Drum Temperature |          | Lead Shoe Temperature |          |
|---------------------------------------|-----------------|-------------------|---------------|----------------|------------------|--------------|-----------|------------------|-----------|----------|----------------|---------|----------|-----------------|----------|------------------|----------|-----------------------|----------|
|                                       |                 |                   |               |                |                  |              | Min lb-ft | Avg (Time) lb-ft | Max lb-ft | Min psi  | Avg (Time) psi | Max psi | Min inch | Avg (Time) inch | Max inch | Initial °F       | Final °F | Initial °F            | Final °F |
| Section 441 Durability Loop 19        |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                     | 30.07           | 2.97              | 1.59          | 125.36         | 0.745            | 0.818        | 15297.72  | 16314.27         | 16803.78  | 91.35    | 106.60         | 116.82  | 2.19     | 2.26            | 2.29     | 200.37           | 342.06   | 270.62                | 274.29   |
| 2                                     | 50.00           | 2.97              | 3.32          | 250.08         | 0.621            | 0.635        | 11997.83  | 12661.72         | 13520.31  | 79.52    | 83.86          | 94.29   | 2.03     | 2.07            | 2.11     | 200.30           | 480.92   | 247.43                | 283.36   |
| 3                                     | 59.90           | 2.97              | 4.78          | 500.33         | 0.528            | 0.530        | 10190.71  | 10573.09         | 11204.92  | 70.25    | 74.74          | 77.70   | 1.86     | 2.01            | 2.11     | 200.53           | 476.80   | 216.07                | 291.60   |
| 4                                     | 60.02           | 2.97              | 4.77          | 600.25         | 0.528            | 0.530        | 10238.41  | 10569.18         | 11195.53  | 69.77    | 73.34          | 75.44   | 1.87     | 2.02            | 2.11     | 201.06           | 477.79   | 197.53                | 278.71   |
| 5                                     | 70.05           | 2.97              | 7.97          | 605.04         | 0.373            | 0.374        | 7084.74   | 7464.00          | 8178.71   | 50.17    | 56.04          | 59.48   | 1.62     | 1.84            | 1.97     | 202.66           | 474.28   | 188.22                | 310.45   |
| Section 442 Speed Maintenance Loop 19 |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                     | 54.45           | 54.95             | 34.51         | 920.98         | 0.028            | 0.028        | 267.57    | 559.25           | 842.32    | 5.64     | 6.68           | 8.34    | 0.60     | 0.70            | 0.78     | 151.24           | 460.24   | 166.78                | 280.92   |
| 2                                     | 54.95           | 55.07             | 34.52         | 70.00          | 0.028            | 0.028        | 215.96    | 561.59           | 946.32    | 4.99     | 6.66           | 8.27    | 0.68     | 0.81            | 0.87     | 348.24           | 548.74   | 254.52                | 375.23   |
| 3                                     | 55.07           | 54.95             | 34.52         | 70.04          | 0.028            | 0.028        | 237.08    | 561.59           | 878.29    | 5.23     | 6.99           | 8.57    | 0.78     | 0.90            | 0.96     | 471.30           | 666.24   | 329.07                | 420.93   |
| 4                                     | 54.95           | 55.07             | 34.50         | 75.02          | 0.037            | 0.037        | 398.94    | 740.66           | 1056.58   | 6.09     | 8.39           | 9.95    | 0.91     | 1.04            | 1.13     | 535.70           | 708.13   | 365.61                | 481.89   |
| 5                                     | 55.07           | 54.95             | 34.51         | 74.99          | 0.037            | 0.037        | 446.64    | 736.75           | 1044.85   | 6.25     | 8.72           | 10.17   | 0.99     | 1.15            | 1.23     | 596.43           | 705.07   | 422.61                | 520.49   |
| 6                                     | 54.95           | 55.07             | 34.52         | 75.00          | 0.037            | 0.037        | 465.41    | 731.28           | 1051.88   | 6.21     | 9.33           | 10.37   | 1.03     | 1.21            | 1.30     | 633.05           | 696.30   | 464.49                | 531.33   |
| 7                                     | 54.95           | 54.95             | 34.50         | 75.05          | 0.037            | 0.037        | 437.26    | 733.62           | 1091.76   | 5.96     | 9.26           | 10.57   | 1.04     | 1.24            | 1.32     | 665.93           | 747.49   | 484.41                | 550.55   |
| 8                                     | 55.07           | 54.95             | 34.50         | 75.03          | 0.037            | 0.037        | 413.80    | 729.71           | 1075.34   | 5.52     | 9.08           | 10.50   | 1.04     | 1.25            | 1.33     | 686.76           | 767.33   | 510.19                | 594.27   |
| 9                                     | 54.95           | 54.95             | 34.50         | 70.02          | 0.019            | 0.019        | 68.17     | 377.05           | 646.04    | 4.46     | 6.57           | 8.02    | 0.95     | 1.07            | 1.10     | 745.13           | 795.41   | 559.63                | 627.16   |
| 10                                    | 54.95           | 54.95             | 34.50         | 70.03          | 0.019            | 0.019        | 77.56     | 378.61           | 594.43    | 4.37     | 6.37           | 7.99    | 0.90     | 1.02            | 1.06     | 736.05           | 807.77   | 586.57                | 633.95   |
| 11                                    | 54.95           | 55.07             | 39.51         | 70.00          | 0.030            | 0.030        | 301.20    | 594.43           | 957.27    | 5.34     | 8.01           | 9.04    | 0.96     | 1.08            | 1.14     | 735.21           | 879.18   | 597.55                | 661.41   |
| Section 443 Cooling Loop 19           |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                     | 4.95            | 0.62              | 95.10         | 1071.54        | 0.000            | 0.001        | -25.14    | 29.80            | 68.95     | -0.02    | 0.10           | 0.22    | -0.01    | 0.01            | 0.02     | 224.87           | 205.33   | 292.83                | 274.97   |
| Section 451 Durability Loop 20        |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                     | 29.95           | 2.97              | 1.56          | 142.53         | 0.745            | 0.818        | 15400.94  | 16314.27         | 16871.82  | 89.42    | 105.12         | 115.18  | 2.17     | 2.23            | 2.26     | 200.45           | 348.01   | 266.50                | 270.09   |
| 2                                     | 50.00           | 2.97              | 3.29          | 310.41         | 0.621            | 0.635        | 11972.02  | 12664.84         | 13604.77  | 78.12    | 82.48          | 94.01   | 2.01     | 2.04            | 2.09     | 201.29           | 478.47   | 235.60                | 268.79   |
| 3                                     | 60.02           | 2.97              | 4.76          | 491.66         | 0.528            | 0.531        | 10200.09  | 10580.13         | 11355.05  | 69.85    | 74.29          | 77.07   | 1.85     | 2.00            | 2.09     | 201.90           | 483.20   | 209.13                | 285.27   |
| 4                                     | 60.02           | 2.97              | 4.78          | 644.07         | 0.528            | 0.530        | 10250.14  | 10566.05         | 11322.21  | 69.60    | 72.66          | 74.27   | 1.87     | 1.99            | 2.08     | 200.45           | 485.04   | 190.28                | 274.59   |
| 5                                     | 70.05           | 2.97              | 7.99          | 732.76         | 0.373            | 0.374        | 7047.21   | 7461.65          | 8025.45   | 51.54    | 56.14          | 59.10   | 1.62     | 1.83            | 1.95     | 201.06           | 482.21   | 175.33                | 305.64   |
| Section 452 Speed Maintenance Loop 20 |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                     | 54.33           | 55.07             | 34.51         | 909.42         | 0.028            | 0.028        | 263.66    | 558.46           | 856.39    | 5.43     | 6.59           | 8.27    | 0.59     | 0.70            | 1.10     | 152.23           | 539.21   | 161.82                | 287.48   |
| 2                                     | 55.07           | 54.95             | 34.51         | 70.01          | 0.028            | 0.028        | 218.31    | 561.59           | 929.90    | 4.87     | 6.63           | 8.39    | 0.68     | 0.80            | 0.87     | 374.10           | 742.08   | 253.30                | 372.63   |
| 3                                     | 54.95           | 54.95             | 34.50         | 70.03          | 0.028            | 0.028        | 237.08    | 561.59           | 866.56    | 5.09     | 7.00           | 8.46    | 0.77     | 0.89            | 0.96     | 516.39           | 753.14   | 324.41                | 417.11   |
| 4                                     | 54.95           | 54.95             | 34.50         | 75.01          | 0.037            | 0.037        | 403.64    | 737.53           | 1107.40   | 6.02     | 8.38           | 9.87    | 0.90     | 1.03            | 1.13     | 555.15           | 716.75   | 361.95                | 484.25   |
| 5                                     | 54.95           | 55.07             | 34.50         | 75.00          | 0.037            | 0.037        | 405.98    | 732.84           | 1089.42   | 5.86     | 8.70           | 10.11   | 0.96     | 1.16            | 1.24     | 614.13           | 697.22   | 419.32                | 524.61   |
| 6                                     | 54.95           | 55.07             | 34.51         | 75.04          | 0.037            | 0.037        | 430.22    | 729.71           | 1065.18   | 5.98     | 9.13           | 10.32   | 1.04     | 1.21            | 1.29     | 637.93           | 694.54   | 463.65                | 527.67   |
| 7                                     | 55.07           | 54.95             | 34.50         | 75.03          | 0.037            | 0.037        | 388.00    | 734.41           | 1103.49   | 5.55     | 9.18           | 10.48   | 1.03     | 1.24            | 1.33     | 662.04           | 732.24   | 480.29                | 540.03   |
| 8                                     | 54.95           | 54.95             | 34.51         | 75.03          | 0.037            | 0.037        | 429.44    | 732.84           | 1068.31   | 5.66     | 9.43           | 10.65   | 1.05     | 1.25            | 1.33     | 684.24           | 741.77   | 501.95                | 576.95   |
| 9                                     | 54.95           | 54.95             | 34.51         | 70.02          | 0.019            | 0.019        | 77.56     | 377.83           | 721.11    | 4.73     | 6.33           | 7.84    | 0.97     | 1.06            | 1.08     | 726.44           | 790.98   | 546.43                | 622.65   |
| 10                                    | 54.95           | 54.95             | 34.52         | 70.03          | 0.019            | 0.019        | 84.59     | 382.52           | 587.40    | 4.40     | 6.34           | 7.84    | 0.89     | 1.02            | 1.05     | 743.22           | 818.91   | 581.61                | 641.19   |
| 11                                    | 54.95           | 54.95             | 39.51         | 70.02          | 0.030            | 0.030        | 298.85    | 597.56           | 936.94    | 5.36     | 7.96           | 9.17    | 0.95     | 1.07            | 1.13     | 738.26           | 869.87   | 599.99                | 679.27   |
| Section 453 Cooling Loop 20           |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                     | 4.95            | 0.62              | 95.46         | 1080.89        | 0.000            | 0.001        | -11.01    | 30.59            | 68.95     | -0.09    | 0.05           | 0.16    | -0.02    | 0.00            | 0.02     | 225.25           | 206.25   | 291.91                | 274.74   |

Test Request #:  
112305-3-1



Customer Ref:

| Stop #                                | Brake Speed mph | Release Speed mph | Stop Time sec | Cycle Time sec | Ret. Set Point g | Ret. Level g | Torque    |                  |           | Pressure |                |         | Stroke   |                 |          | Drum Temperature |          | Lead Shoe Temperature |          |
|---------------------------------------|-----------------|-------------------|---------------|----------------|------------------|--------------|-----------|------------------|-----------|----------|----------------|---------|----------|-----------------|----------|------------------|----------|-----------------------|----------|
|                                       |                 |                   |               |                |                  |              | Min lb-ft | Avg (Time) lb-ft | Max lb-ft | Min psi  | Avg (Time) psi | Max psi | Min inch | Avg (Time) inch | Max inch | Initial °F       | Final °F | Initial °F            | Final °F |
| Section 511 Durability Loop 21        |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                     | 29.45           | 2.97              | 1.76          | 29.86          | 0.745            | 0.691        | 13292.12  | 13778.48         | 14422.80  | 119.51   | 120.46         | 121.36  | 2.23     | 2.26            | 2.29     | 197.47           | 307.42   | 116.12                | 128.33   |
| 2                                     | 49.26           | 2.97              | 3.34          | 79.38          | 0.621            | 0.622        | 11758.74  | 12396.02         | 12701.75  | 102.14   | 106.89         | 108.62  | 2.05     | 2.22            | 2.29     | 198.31           | 433.76   | 130.01                | 205.54   |
| 3                                     | 60.02           | 2.97              | 4.84          | 469.75         | 0.528            | 0.525        | 10205.81  | 10468.54         | 10911.12  | 76.00    | 81.07          | 86.67   | 1.76     | 1.97            | 2.11     | 200.53           | 472.75   | 143.74                | 234.61   |
| 4                                     | 60.02           | 2.97              | 4.81          | 664.58         | 0.528            | 0.527        | 10217.54  | 10505.29         | 11059.69  | 71.94    | 75.46          | 80.23   | 1.73     | 1.90            | 2.03     | 201.44           | 484.12   | 163.81                | 255.67   |
| 5                                     | 69.92           | 2.97              | 7.98          | 1128.90        | 0.373            | 0.373        | 7130.46   | 7445.58          | 7822.47   | 53.79    | 55.79          | 57.23   | 1.44     | 1.67            | 1.80     | 201.59           | 493.96   | 155.11                | 294.12   |
| Section 512 Speed Maintenance Loop 21 |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                     | 54.33           | 55.07             | 34.50         | 995.03         | 0.028            | 0.028        | 290.08    | 557.50           | 803.03    | 5.52     | 6.39           | 7.70    | 0.27     | 0.53            | 0.69     | 153.68           | 476.26   | 155.26                | 265.51   |
| 2                                     | 54.95           | 54.95             | 34.50         | 70.01          | 0.028            | 0.028        | 254.11    | 559.85           | 913.28    | 5.03     | 6.48           | 7.72    | 0.54     | 0.64            | 0.71     | 357.62           | 535.16   | 241.63                | 359.20   |
| 3                                     | 54.95           | 54.95             | 34.51         | 70.03          | 0.028            | 0.028        | 263.49    | 562.97           | 815.54    | 5.47     | 6.93           | 8.02    | 0.64     | 0.73            | 0.80     | 459.02           | 577.89   | 317.39                | 410.55   |
| 4                                     | 54.95           | 55.07             | 34.50         | 75.01          | 0.037            | 0.037        | 496.51    | 737.34           | 1003.20   | 6.35     | 8.50           | 9.43    | 0.75     | 0.87            | 0.97     | 499.76           | 592.54   | 357.83                | 482.73   |
| 5                                     | 54.95           | 54.95             | 34.49         | 75.03          | 0.037            | 0.037        | 542.64    | 731.09           | 1018.84   | 6.51     | 9.12           | 9.94    | 0.86     | 0.99            | 1.08     | 549.05           | 609.63   | 419.55                | 511.03   |
| 6                                     | 54.95           | 54.95             | 34.51         | 75.02          | 0.037            | 0.037        | 496.51    | 737.34           | 1028.22   | 6.69     | 9.51           | 10.16   | 0.94     | 1.07            | 1.15     | 586.59           | 641.29   | 458.69                | 529.73   |
| 7                                     | 54.95           | 55.07             | 34.52         | 75.02          | 0.037            | 0.037        | 514.49    | 738.13           | 990.69    | 6.47     | 9.28           | 10.58   | 0.96     | 1.10            | 1.20     | 626.87           | 685.77   | 484.79                | 552.23   |
| 8                                     | 55.07           | 54.95             | 34.50         | 75.03          | 0.037            | 0.037        | 541.08    | 738.13           | 1009.46   | 6.27     | 9.79           | 11.20   | 0.98     | 1.14            | 1.24     | 663.03           | 704.92   | 512.25                | 580.77   |
| 9                                     | 54.95           | 55.07             | 34.50         | 70.01          | 0.019            | 0.019        | 96.94     | 376.09           | 643.51    | 4.67     | 6.35           | 7.60    | 0.88     | 0.97            | 0.99     | 701.79           | 738.11   | 549.87                | 614.95   |
| 10                                    | 54.95           | 54.95             | 34.51         | 70.02          | 0.019            | 0.019        | 160.28    | 377.65           | 519.97    | 4.74     | 6.31           | 7.79    | 0.84     | 0.92            | 0.96     | 717.97           | 767.03   | 580.77                | 638.45   |
| 11                                    | 54.95           | 55.07             | 39.50         | 70.00          | 0.030            | 0.030        | 304.15    | 595.03           | 921.10    | 5.20     | 7.84           | 9.07    | 0.85     | 0.98            | 1.04     | 716.37           | 793.12   | 602.51                | 681.55   |
| Section 513 Cooling Loop 21           |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                     | 4.95            | 0.62              | 88.71         | 1177.61        | 0.000            | 0.002        | -17.47    | 35.11            | 76.61     | -0.10    | 0.02           | 0.14    | -0.02    | 0.00            | 0.01     | 225.32           | 209.68   | 283.82                | 268.11   |
| Section 521 Durability Loop 22        |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                     | 30.07           | 2.97              | 1.55          | 193.22         | 0.745            | 0.819        | 15533.15  | 16333.07         | 16846.02  | 79.44    | 97.73          | 111.36  | 2.00     | 2.11            | 2.17     | 200.53           | 344.96   | 251.93                | 255.75   |
| 2                                     | 50.00           | 2.97              | 3.33          | 364.47         | 0.621            | 0.630        | 12049.62  | 12564.13         | 13397.68  | 77.30    | 80.16          | 87.57   | 1.90     | 1.95            | 2.00     | 200.83           | 462.45   | 221.87                | 258.64   |
| 3                                     | 60.02           | 2.97              | 4.78          | 603.74         | 0.528            | 0.530        | 10203.47  | 10562.38         | 11164.47  | 68.34    | 72.54          | 75.38   | 1.75     | 1.91            | 2.01     | 201.29           | 474.13   | 196.31                | 267.19   |
| 4                                     | 60.02           | 2.97              | 4.80          | 752.34         | 0.528            | 0.529        | 10294.95  | 10543.61         | 11075.33  | 68.88    | 71.65          | 73.69   | 1.74     | 1.90            | 2.00     | 202.05           | 482.14   | 182.88                | 259.10   |
| 5                                     | 70.05           | 2.97              | 8.00          | 873.21         | 0.373            | 0.374        | 7146.10   | 7451.83          | 7873.30   | 51.12    | 54.38          | 56.59   | 1.49     | 1.73            | 1.85     | 201.75           | 487.32   | 170.52                | 295.19   |
| Section 522 Speed Maintenance Loop 22 |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                     | 54.33           | 55.07             | 34.51         | 1020.60        | 0.028            | 0.028        | 304.15    | 556.72           | 821.79    | 5.28     | 6.41           | 7.92    | 0.49     | 0.60            | 0.68     | 151.70           | 442.46   | 159.38                | 271.69   |
| 2                                     | 55.07           | 54.95             | 34.50         | 70.02          | 0.028            | 0.028        | 247.07    | 558.28           | 896.86    | 4.78     | 6.45           | 7.85    | 0.58     | 0.69            | 0.76     | 347.70           | 514.71   | 246.74                | 370.72   |
| 3                                     | 54.95           | 54.95             | 34.50         | 70.01          | 0.028            | 0.028        | 265.84    | 561.41           | 867.15    | 4.97     | 6.84           | 8.29    | 0.67     | 0.78            | 0.85     | 455.28           | 609.78   | 324.95                | 418.49   |
| 4                                     | 54.95           | 54.95             | 34.51         | 75.02          | 0.037            | 0.037        | 423.79    | 740.47           | 1091.56   | 5.83     | 8.35           | 9.79    | 0.79     | 0.93            | 1.02     | 517.46           | 644.34   | 363.55                | 483.95   |
| 5                                     | 55.07           | 54.95             | 34.50         | 75.02          | 0.037            | 0.037        | 451.16    | 734.22           | 1071.23   | 5.82     | 8.78           | 9.87    | 0.88     | 1.04            | 1.12     | 583.84           | 661.74   | 422.61                | 517.59   |
| 6                                     | 54.95           | 54.95             | 34.51         | 75.01          | 0.037            | 0.037        | 428.48    | 735.78           | 1101.73   | 5.98     | 9.12           | 10.09   | 0.94     | 1.13            | 1.21     | 621.91           | 683.63   | 463.27                | 534.68   |
| 7                                     | 55.07           | 54.95             | 34.51         | 75.01          | 0.037            | 0.037        | 390.95    | 736.56           | 1073.58   | 5.58     | 9.02           | 10.50   | 0.96     | 1.17            | 1.25     | 662.04           | 732.31   | 487.15                | 558.41   |
| 8                                     | 54.95           | 55.07             | 34.52         | 75.02          | 0.037            | 0.037        | 394.86    | 729.53           | 1104.07   | 5.45     | 9.10           | 10.58   | 0.98     | 1.19            | 1.27     | 685.62           | 752.15   | 517.37                | 602.05   |
| 9                                     | 55.07           | 54.95             | 34.51         | 70.01          | 0.019            | 0.019        | 94.59     | 372.96           | 616.14    | 4.48     | 6.31           | 7.85    | 0.91     | 1.02            | 1.05     | 743.98           | 795.03   | 566.35                | 634.33   |
| 10                                    | 54.95           | 54.95             | 34.50         | 70.02          | 0.019            | 0.019        | 61.75     | 374.53           | 645.86    | 4.26     | 6.21           | 7.91    | 0.83     | 0.97            | 1.01     | 745.13           | 818.68   | 593.59                | 640.13   |
| 11                                    | 55.07           | 54.95             | 39.50         | 70.00          | 0.030            | 0.030        | 256.45    | 595.03           | 957.85    | 4.78     | 7.77           | 9.20    | 0.89     | 1.03            | 1.09     | 749.02           | 916.03   | 602.59                | 675.91   |
| Section 523 Cooling Loop 22           |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                     | 4.95            | 0.62              | 93.08         | 1159.21        | 0.000            | 0.002        | -8.84     | 35.89            | 76.61     | -0.13    | 0.03           | 0.17    | -0.02    | 0.00            | 0.02     | 225.63           | 208.54   | 287.48                | 271.84   |

Test Request #:  
112305-3-1



Customer Ref:

| Stop #                                       | Brake Speed mph | Release Speed mph | Stop Time sec | Cycle Time sec | Ret. Set Point g | Ret. Level g | ----- Min lb-ft | Torque Avg (Time) lb-ft | ----- Max lb-ft | ----- Min psi | Pressure Avg (Time) psi | ----- Max psi | ----- Min inch | Stroke Avg (Time) inch | ----- Max inch | Drum Temperature Initial °F Final °F |        | Lead Shoe Temperature Initial °F Final °F |        |
|----------------------------------------------|-----------------|-------------------|---------------|----------------|------------------|--------------|-----------------|-------------------------|-----------------|---------------|-------------------------|---------------|----------------|------------------------|----------------|--------------------------------------|--------|-------------------------------------------|--------|
| <b>Section 531 Durability Loop 23</b>        |                 |                   |               |                |                  |              |                 |                         |                 |               |                         |               |                |                        |                |                                      |        |                                           |        |
| 1                                            | 29.95           | 2.97              | 1.56          | 168.23         | 0.745            | 0.819        | 15713.77        | 16321.34                | 16874.95        | 81.78         | 99.25                   | 111.95        | 2.06           | 2.17                   | 2.22           | 200.68                               | 358.23 | 259.79                                    | 264.29 |
| 2                                            | 50.00           | 2.97              | 3.32          | 314.13         | 0.621            | 0.630        | 12077.77        | 12567.26                | 13402.37        | 78.59         | 81.51                   | 89.07         | 1.94           | 1.98                   | 2.03           | 200.76                               | 510.59 | 232.55                                    | 271.31 |
| 3                                            | 60.02           | 2.97              | 4.80          | 592.44         | 0.528            | 0.530        | 10252.73        | 10568.63                | 11153.52        | 69.48         | 73.60                   | 76.35         | 1.80           | 1.96                   | 2.06           | 201.29                               | 505.18 | 201.27                                    | 272.68 |
| 4                                            | 60.02           | 2.97              | 4.79          | 690.42         | 0.528            | 0.529        | 10312.94        | 10545.96                | 11141.79        | 69.86         | 72.59                   | 74.54         | 1.82           | 1.96                   | 2.07           | 200.53                               | 505.64 | 187.69                                    | 267.72 |
| 5                                            | 69.92           | 2.97              | 8.01          | 779.41         | 0.373            | 0.374        | 7167.99         | 7460.43                 | 7878.77         | 51.97         | 55.37                   | 57.83         | 1.56           | 1.79                   | 1.91           | 201.37                               | 510.75 | 176.24                                    | 300.30 |
| <b>Section 532 Speed Maintenance Loop 23</b> |                 |                   |               |                |                  |              |                 |                         |                 |               |                         |               |                |                        |                |                                      |        |                                           |        |
| 1                                            | 54.45           | 54.95             | 34.52         | 1004.81        | 0.028            | 0.028        | 341.68          | 548.90                  | 775.66          | 5.11          | 6.48                    | 8.25          | 0.52           | 0.64                   | 0.72           | 152.15                               | 512.43 | 161.29                                    | 261.93 |
| 2                                            | 54.95           | 54.95             | 34.51         | 70.02          | 0.028            | 0.028        | 261.93          | 559.85                  | 841.34          | 4.54          | 6.59                    | 8.33          | 0.62           | 0.75                   | 0.83           | 346.71                               | 723.77 | 239.95                                    | 358.75 |
| 3                                            | 55.07           | 54.95             | 34.51         | 70.01          | 0.028            | 0.028        | 191.55          | 559.85                  | 864.02          | 4.51          | 7.20                    | 8.76          | 0.69           | 0.84                   | 0.92           | 493.20                               | 774.43 | 313.43                                    | 410.09 |
| 4                                            | 54.95           | 55.07             | 34.51         | 75.02          | 0.037            | 0.037        | 392.51          | 736.56                  | 1071.23         | 5.19          | 9.08                    | 10.19         | 0.81           | 1.02                   | 1.14           | 545.61                               | 728.57 | 355.08                                    | 489.36 |
| 5                                            | 54.95           | 54.95             | 34.51         | 75.02          | 0.037            | 0.037        | 448.81          | 735.00                  | 1061.07         | 5.70          | 9.19                    | 10.26         | 0.93           | 1.12                   | 1.21           | 597.04                               | 715.53 | 421.23                                    | 517.75 |
| 6                                            | 55.07           | 54.95             | 34.49         | 75.03          | 0.037            | 0.037        | 416.75          | 734.22                  | 1079.83         | 5.82          | 9.20                    | 10.58         | 0.98           | 1.18                   | 1.26           | 639.00                               | 742.38 | 460.37                                    | 537.97 |
| 7                                            | 54.95           | 55.07             | 34.50         | 75.03          | 0.037            | 0.037        | 383.91          | 738.13                  | 1075.14         | 5.66          | 9.17                    | 10.72         | 1.01           | 1.22                   | 1.30           | 689.36                               | 806.32 | 486.85                                    | 571.61 |
| 8                                            | 55.07           | 54.95             | 34.52         | 75.00          | 0.037            | 0.037        | 484.00          | 737.34                  | 1103.29         | 5.94          | 9.29                    | 10.53         | 1.06           | 1.25                   | 1.33           | 702.48                               | 812.96 | 522.32                                    | 597.71 |
| 9                                            | 54.95           | 55.07             | 34.50         | 70.02          | 0.019            | 0.019        | 71.13           | 373.74                  | 695.90          | 4.61          | 6.29                    | 7.85          | 0.96           | 1.05                   | 1.09           | 749.94                               | 823.26 | 559.33                                    | 625.93 |
| 10                                           | 54.95           | 54.95             | 34.50         | 70.05          | 0.019            | 0.019        | 85.21           | 377.65                  | 630.22          | 4.38          | 6.43                    | 8.14          | 0.88           | 1.01                   | 1.04           | 761.46                               | 843.93 | 585.73                                    | 638.75 |
| 11                                           | 55.07           | 54.95             | 39.51         | 70.01          | 0.030            | 0.030        | 346.38          | 593.47                  | 907.02          | 5.20          | 8.26                    | 9.37          | 0.95           | 1.10                   | 1.15           | 748.79                               | 922.82 | 600.45                                    | 677.05 |
| <b>Section 533 Cooling Loop 23</b>           |                 |                   |               |                |                  |              |                 |                         |                 |               |                         |               |                |                        |                |                                      |        |                                           |        |
| 1                                            | 4.95            | 0.62              | 107.76        | 1149.22        | 0.000            | 0.002        | -19.83          | 31.19                   | 71.92           | -0.09         | 0.04                    | 0.15          | -0.02          | 0.00                   | 0.02           | 224.79                               | 204.80 | 290.23                                    | 271.46 |
| <b>Section 541 Durability Loop 24</b>        |                 |                   |               |                |                  |              |                 |                         |                 |               |                         |               |                |                        |                |                                      |        |                                           |        |
| 1                                            | 30.07           | 2.97              | 1.58          | 144.85         | 0.745            | 0.821        | 15227.41        | 16363.56                | 16839.76        | 92.05         | 108.10                  | 118.89        | 2.19           | 2.25                   | 2.29           | 201.06                               | 346.63 | 265.28                                    | 270.47 |
| 2                                            | 50.00           | 2.97              | 3.33          | 361.89         | 0.621            | 0.634        | 11955.00        | 12633.73                | 13581.43        | 77.63         | 82.56                   | 93.78         | 2.00           | 2.04                   | 2.09           | 201.44                               | 496.02 | 231.03                                    | 272.15 |
| 3                                            | 60.02           | 2.97              | 4.77          | 580.18         | 0.528            | 0.530        | 10255.07        | 10574.10                | 11198.09        | 69.87         | 73.10                   | 75.55         | 1.84           | 1.99                   | 2.08           | 201.44                               | 516.01 | 201.65                                    | 280.08 |
| 4                                            | 60.02           | 2.97              | 4.78          | 688.81         | 0.528            | 0.530        | 10343.43        | 10566.29                | 11130.06        | 70.58         | 72.26                   | 74.50         | 1.86           | 2.00                   | 2.10           | 201.75                               | 504.41 | 187.23                                    | 271.69 |
| 5                                            | 70.05           | 2.97              | 8.00          | 722.60         | 0.373            | 0.375        | 7162.52         | 7472.94                 | 8021.08         | 51.83         | 55.53                   | 58.67         | 1.61           | 1.83                   | 1.95           | 201.67                               | 518.07 | 178.99                                    | 309.99 |
| <b>Section 542 Speed Maintenance Loop 24</b> |                 |                   |               |                |                  |              |                 |                         |                 |               |                         |               |                |                        |                |                                      |        |                                           |        |
| 1                                            | 54.45           | 54.95             | 34.51         | 1009.77        | 0.028            | 0.028        | 313.54          | 552.81                  | 775.66          | 5.30          | 6.57                    | 8.45          | 0.58           | 0.69                   | 0.78           | 150.86                               | 592.77 | 162.97                                    | 273.52 |
| 2                                            | 54.95           | 54.95             | 34.51         | 70.01          | 0.028            | 0.028        | 240.82          | 560.63                  | 873.40          | 4.63          | 6.71                    | 8.47          | 0.67           | 0.81                   | 0.88           | 373.87                               | 651.59 | 245.06                                    | 361.26 |
| 3                                            | 54.95           | 55.07             | 34.51         | 70.00          | 0.028            | 0.028        | 268.96          | 559.85                  | 842.91          | 4.89          | 7.20                    | 8.65          | 0.77           | 0.90                   | 0.97           | 504.80                               | 652.28 | 316.71                                    | 409.25 |
| 4                                            | 54.95           | 54.95             | 34.51         | 75.01          | 0.037            | 0.037        | 451.16          | 735.00                  | 1084.52         | 5.56          | 9.08                    | 10.30         | 0.88           | 1.08                   | 1.19           | 533.87                               | 651.74 | 355.31                                    | 490.81 |
| 5                                            | 54.95           | 54.95             | 34.50         | 75.05          | 0.037            | 0.037        | 466.01          | 736.56                  | 1075.92         | 6.25          | 9.71                    | 10.68         | 1.00           | 1.18                   | 1.26           | 578.27                               | 653.96 | 418.49                                    | 518.43 |
| 6                                            | 54.95           | 54.95             | 34.51         | 75.03          | 0.037            | 0.037        | 437.86          | 735.00                  | 1080.61         | 6.39          | 9.61                    | 10.78         | 1.09           | 1.23                   | 1.31           | 614.66                               | 677.00 | 457.63                                    | 533.69 |
| 7                                            | 54.95           | 55.07             | 34.51         | 75.01          | 0.037            | 0.037        | 420.66          | 738.91                  | 1064.19         | 5.80          | 9.25                    | 10.74         | 1.05           | 1.26                   | 1.34           | 654.11                               | 727.12 | 481.12                                    | 562.23 |
| 8                                            | 55.07           | 54.95             | 34.50         | 75.01          | 0.037            | 0.037        | 521.53          | 735.00                  | 1061.07         | 6.09          | 9.57                    | 10.74         | 1.10           | 1.27                   | 1.52           | 682.72                               | 755.89 | 515.53                                    | 601.83 |
| 9                                            | 54.95           | 55.07             | 34.50         | 70.03          | 0.019            | 0.019        | 80.52           | 373.74                  | 676.35          | 4.60          | 6.43                    | 8.05          | 0.98           | 1.08                   | 1.12           | 735.74                               | 781.68 | 560.63                                    | 626.47 |
| 10                                           | 54.95           | 54.95             | 34.49         | 70.05          | 0.019            | 0.019        | 69.57           | 376.87                  | 609.11          | 4.32          | 6.61                    | 8.11          | 0.91           | 1.04                   | 1.07           | 739.79                               | 793.65 | 584.35                                    | 634.71 |
| 11                                           | 55.07           | 54.95             | 39.50         | 70.03          | 0.030            | 0.030        | 334.65          | 592.69                  | 921.10          | 5.25          | 8.42                    | 9.49          | 0.98           | 1.14                   | 1.20           | 729.95                               | 816.39 | 596.33                                    | 664.39 |
| <b>Section 543 Cooling Loop 24</b>           |                 |                   |               |                |                  |              |                 |                         |                 |               |                         |               |                |                        |                |                                      |        |                                           |        |
| 1                                            | 4.95            | 0.62              | 97.42         | 1153.09        | 0.000            | 0.002        | -0.99           | 35.89                   | 71.92           | -0.09         | 0.03                    | 0.14          | 0.00           | 0.01                   | 0.03           | 225.86                               | 206.40 | 289.85                                    | 273.75 |

Test Request #:  
112305-3-1



Customer Ref:

| Stop #                                       | Brake Speed mph | Release Speed mph | Stop Time sec | Cycle Time sec | Ret. Set Point g | Ret. Level g | ----- Min lb-ft | Torque Avg (Time) lb-ft | ----- Max lb-ft | ----- Min psi | Pressure Avg (Time) psi | ----- Max psi | ----- Min inch | Stroke Avg (Time) inch | ----- Max inch | Drum Temperature Initial °F Final °F |        | Lead Shoe Temperature Initial °F Final °F |        |
|----------------------------------------------|-----------------|-------------------|---------------|----------------|------------------|--------------|-----------------|-------------------------|-----------------|---------------|-------------------------|---------------|----------------|------------------------|----------------|--------------------------------------|--------|-------------------------------------------|--------|
| <b>Section 551 Durability Loop 25</b>        |                 |                   |               |                |                  |              |                 |                         |                 |               |                         |               |                |                        |                |                                      |        |                                           |        |
| 1                                            | 29.95           | 2.97              | 1.62          | 138.56         | 0.745            | 0.812        | 14871.63        | 16182.15                | 16593.45        | 94.36         | 110.01                  | 119.80        | 2.21           | 2.27                   | 2.30           | 201.98                               | 337.10 | 266.73                                    | 272.15 |
| 2                                            | 50.00           | 2.97              | 3.34          | 345.07         | 0.621            | 0.634        | 11960.48        | 12643.11                | 13691.69        | 75.65         | 81.56                   | 95.10         | 2.01           | 2.06                   | 2.10           | 201.75                               | 476.34 | 235.07                                    | 275.43 |
| 3                                            | 60.02           | 2.97              | 4.78          | 627.06         | 0.528            | 0.531        | 10249.60        | 10584.27                | 11341.18        | 69.35         | 73.34                   | 75.84         | 1.86           | 1.99                   | 2.09           | 201.75                               | 492.51 | 199.74                                    | 284.05 |
| 4                                            | 59.90           | 2.97              | 4.79          | 758.91         | 0.528            | 0.530        | 10324.67        | 10560.03                | 11148.05        | 71.01         | 72.88                   | 75.38         | 1.88           | 2.02                   | 2.11           | 201.37                               | 502.05 | 181.51                                    | 271.31 |
| 5                                            | 69.92           | 2.97              | 7.99          | 846.46         | 0.373            | 0.375        | 7172.68         | 7472.94                 | 7923.34         | 52.70         | 55.84                   | 58.55         | 1.65           | 1.86                   | 1.98           | 201.06                               | 500.14 | 168.46                                    | 304.42 |
| <b>Section 552 Speed Maintenance Loop 25</b> |                 |                   |               |                |                  |              |                 |                         |                 |               |                         |               |                |                        |                |                                      |        |                                           |        |
| 1                                            | 54.45           | 54.95             | 34.52         | 993.43         | 0.028            | 0.027        | 336.99          | 548.12                  | 770.97          | 5.16          | 6.66                    | 8.49          | 0.60           | 0.72                   | 0.80           | 151.16                               | 512.35 | 159.00                                    | 267.72 |
| 2                                            | 54.95           | 55.07             | 34.51         | 70.02          | 0.028            | 0.028        | 195.46          | 559.06                  | 862.45          | 4.48          | 6.67                    | 8.79          | 0.68           | 0.83                   | 0.90           | 359.60                               | 586.28 | 238.50                                    | 359.97 |
| 3                                            | 54.95           | 54.95             | 34.50         | 70.04          | 0.028            | 0.028        | 146.98          | 555.94                  | 883.57          | 4.45          | 7.20                    | 9.01          | 0.76           | 0.92                   | 0.99           | 478.32                               | 611.15 | 311.37                                    | 408.87 |
| 4                                            | 54.95           | 55.07             | 34.51         | 75.00          | 0.037            | 0.037        | 383.91          | 740.47                  | 1080.61         | 5.20          | 9.15                    | 10.36         | 0.88           | 1.11                   | 1.21           | 516.09                               | 615.35 | 351.65                                    | 488.75 |
| 5                                            | 54.95           | 54.95             | 34.51         | 75.02          | 0.037            | 0.037        | 444.12          | 735.00                  | 1082.18         | 5.71          | 9.62                    | 10.63         | 0.99           | 1.20                   | 1.29           | 561.64                               | 630.30 | 414.75                                    | 519.81 |
| 6                                            | 54.95           | 54.95             | 34.52         | 74.99          | 0.037            | 0.037        | 448.81          | 735.00                  | 1073.58         | 6.07          | 9.51                    | 10.80         | 1.06           | 1.26                   | 1.34           | 593.76                               | 649.61 | 454.73                                    | 534.91 |
| 7                                            | 54.95           | 54.95             | 34.52         | 75.02          | 0.037            | 0.037        | 397.98          | 738.13                  | 1059.50         | 5.68          | 9.33                    | 10.92         | 1.08           | 1.29                   | 1.37           | 634.27                               | 695.99 | 479.83                                    | 559.79 |
| 8                                            | 55.07           | 54.95             | 34.50         | 75.03          | 0.037            | 0.037        | 447.25          | 736.56                  | 1079.83         | 5.96          | 9.06                    | 10.73         | 1.11           | 1.30                   | 1.38           | 665.40                               | 713.47 | 509.51                                    | 594.35 |
| 9                                            | 54.95           | 54.95             | 34.50         | 70.01          | 0.019            | 0.019        | 68.79           | 374.53                  | 695.12          | 4.54          | 6.46                    | 8.02          | 1.01           | 1.11                   | 1.15           | 701.11                               | 759.40 | 554.29                                    | 627.61 |
| 10                                           | 55.07           | 54.95             | 34.50         | 70.01          | 0.019            | 0.019        | 76.61           | 377.65                  | 580.96          | 4.31          | 6.44                    | 8.05          | 0.94           | 1.07                   | 1.11           | 724.68                               | 777.48 | 581.99                                    | 636.23 |
| 11                                           | 54.95           | 55.07             | 39.51         | 70.04          | 0.030            | 0.030        | 312.75          | 593.47                  | 881.22          | 4.96          | 8.33                    | 9.61          | 0.99           | 1.17                   | 1.23           | 719.80                               | 788.16 | 594.65                                    | 671.41 |
| <b>Section 553 Cooling Loop 25</b>           |                 |                   |               |                |                  |              |                 |                         |                 |               |                         |               |                |                        |                |                                      |        |                                           |        |
| 1                                            | 5.07            | 0.62              | 97.89         | 1148.35        | 0.000            | 0.002        | -3.35           | 35.89                   | 71.13           | -0.07         | 0.03                    | 0.15          | -0.01          | 0.01                   | 0.03           | 225.25                               | 206.55 | 291.07                                    | 273.90 |
| <b>Section 611 Durability Loop 26</b>        |                 |                   |               |                |                  |              |                 |                         |                 |               |                         |               |                |                        |                |                                      |        |                                           |        |
| 1                                            | 30.07           | 2.97              | 1.81          | 65.20          | 0.745            | 0.690        | 13310.62        | 13753.21                | 14403.02        | 119.48        | 120.61                  | 121.57        | 2.77           | 2.80                   | 2.82           | 199.92                               | 310.09 | 119.02                                    | 122.61 |
| 2                                            | 49.63           | 2.97              | 3.40          | 115.80         | 0.621            | 0.617        | 11966.42        | 12301.89                | 12571.66        | 101.29        | 108.44                  | 113.36        | 2.63           | 2.76                   | 2.83           | 200.76                               | 429.11 | 128.94                                    | 164.72 |
| 3                                            | 60.02           | 2.97              | 4.85          | 322.53         | 0.528            | 0.525        | 10098.31        | 10472.09                | 11203.23        | 75.08         | 82.83                   | 89.34         | 2.41           | 2.57                   | 2.69           | 201.44                               | 475.12 | 142.52                                    | 205.92 |
| 4                                            | 60.02           | 2.97              | 4.80          | 492.55         | 0.528            | 0.529        | 10195.28        | 10547.94                | 11304.88        | 73.66         | 76.65                   | 80.26         | 2.36           | 2.48                   | 2.58           | 200.15                               | 516.09 | 160.91                                    | 228.89 |
| 5                                            | 69.92           | 2.97              | 7.99          | 509.21         | 0.373            | 0.374        | 7044.74         | 7463.09                 | 8268.52         | 52.10         | 56.01                   | 58.56         | 2.05           | 2.25                   | 2.36           | 200.45                               | 509.53 | 174.87                                    | 283.82 |
| <b>Section 612 Speed Maintenance Loop 26</b> |                 |                   |               |                |                  |              |                 |                         |                 |               |                         |               |                |                        |                |                                      |        |                                           |        |
| 1                                            | 54.45           | 54.95             | 34.50         | 941.65         | 0.028            | 0.028        | 204.12          | 556.01                  | 825.79          | 4.79          | 6.75                    | 9.22          | 0.90           | 1.05                   | 1.14           | 148.80                               | 448.34 | 163.35                                    | 247.51 |
| 2                                            | 54.95           | 54.95             | 34.51         | 70.02          | 0.028            | 0.028        | 35.20           | 558.35                  | 996.25          | 3.89          | 6.49                    | 9.55          | 0.93           | 1.16                   | 1.24           | 333.05                               | 510.21 | 235.15                                    | 332.80 |
| 3                                            | 55.07           | 54.95             | 34.51         | 69.99          | 0.028            | 0.028        | -3.26           | 557.57                  | 1031.44         | 3.69          | 6.87                    | 9.58          | 0.94           | 1.23                   | 1.31           | 426.13                               | 553.02 | 304.42                                    | 389.11 |
| 4                                            | 54.95           | 54.95             | 34.52         | 75.02          | 0.037            | 0.037        | 175.97          | 733.51                  | 1205.82         | 4.27          | 8.56                    | 10.80         | 1.14           | 1.40                   | 1.51           | 476.57                               | 575.75 | 348.75                                    | 470.21 |
| 5                                            | 54.95           | 54.95             | 34.49         | 75.04          | 0.037            | 0.037        | 278.41          | 733.51                  | 1219.90         | 4.82          | 9.21                    | 11.11         | 1.22           | 1.46                   | 1.92           | 524.94                               | 598.64 | 415.89                                    | 510.73 |
| 6                                            | 55.07           | 54.95             | 34.50         | 75.01          | 0.037            | 0.037        | 320.64          | 741.33                  | 1169.85         | 5.33          | 9.23                    | 11.05         | 1.27           | 1.49                   | 1.56           | 572.32                               | 631.22 | 461.36                                    | 537.81 |
| 7                                            | 54.95           | 55.07             | 34.51         | 75.02          | 0.037            | 0.037        | 210.38          | 738.21                  | 1193.31         | 5.07          | 9.18                    | 11.25         | 1.25           | 1.50                   | 1.57           | 616.80                               | 666.32 | 490.13                                    | 554.83 |
| 8                                            | 55.07           | 54.95             | 34.52         | 75.01          | 0.037            | 0.037        | 299.52          | 733.51                  | 1151.86         | 5.28          | 9.58                    | 11.25         | 1.29           | 1.50                   | 1.58           | 651.97                               | 687.22 | 514.77                                    | 579.01 |
| 9                                            | 54.95           | 55.07             | 34.51         | 70.01          | 0.019            | 0.019        | 63.37           | 378.50                  | 714.75          | 4.27          | 6.68                    | 8.35          | 1.15           | 1.29                   | 1.33           | 686.53                               | 732.46 | 554.29                                    | 614.03 |
| 10                                           | 54.95           | 54.95             | 34.51         | 70.04          | 0.019            | 0.019        | 44.60           | 377.72                  | 647.50          | 4.02          | 6.52                    | 8.50          | 1.08           | 1.24                   | 1.27           | 703.32                               | 754.67 | 581.61                                    | 621.59 |
| 11                                           | 55.07           | 54.95             | 39.51         | 70.04          | 0.030            | 0.030        | 255.73          | 594.32                  | 973.58          | 4.73          | 8.45                    | 9.88          | 1.15           | 1.32                   | 1.38           | 708.96                               | 764.20 | 592.59                                    | 644.93 |
| <b>Section 613 Cooling Loop 26</b>           |                 |                   |               |                |                  |              |                 |                         |                 |               |                         |               |                |                        |                |                                      |        |                                           |        |
| 1                                            | 4.95            | 0.62              | 122.23        | 1110.00        | 0.000            | 0.001        | -33.09          | 14.01                   | 46.95           | -0.11         | 0.00                    | 0.17          | -0.03          | -0.01                  | 0.01           | 225.17                               | 202.05 | 301.90                                    | 281.99 |

Test Request #:  
112305-3-1



Customer Ref:

| Stop #                                | Brake Speed mph | Release Speed mph | Stop Time sec | Cycle Time sec | Ret. Set Point g | Ret. Level g | Torque    |                  |           | Pressure |                |         | Stroke   |                 |          | Drum Temperature |          | Lead Shoe Temperature |          |
|---------------------------------------|-----------------|-------------------|---------------|----------------|------------------|--------------|-----------|------------------|-----------|----------|----------------|---------|----------|-----------------|----------|------------------|----------|-----------------------|----------|
|                                       |                 |                   |               |                |                  |              | Min lb-ft | Avg (Time) lb-ft | Max lb-ft | Min psi  | Avg (Time) psi | Max psi | Min inch | Avg (Time) inch | Max inch | Initial °F       | Final °F | Initial °F            | Final °F |
| Section 621 Durability Loop 27        |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                     | 29.33           | 2.97              | 1.61          | 135.61         | 0.745            | 0.817        | 15250.67  | 16278.96         | 17110.96  | 97.72    | 111.64         | 118.39  | 2.37     | 2.41            | 2.44     | 199.61           | 339.77   | 279.24                | 280.08   |
| 2                                     | 50.00           | 2.97              | 3.34          | 255.46         | 0.621            | 0.636        | 11890.57  | 12679.58         | 13760.25  | 74.63    | 80.50          | 96.03   | 2.14     | 2.19            | 2.24     | 200.22           | 477.71   | 253.61                | 274.74   |
| 3                                     | 60.02           | 2.97              | 4.77          | 487.66         | 0.528            | 0.533        | 10145.23  | 10629.27         | 11435.47  | 69.73    | 73.17          | 76.41   | 2.01     | 2.14            | 2.23     | 201.44           | 482.06   | 223.55                | 278.71   |
| 4                                     | 60.02           | 2.97              | 4.79          | 588.18         | 0.528            | 0.532        | 10278.95  | 10609.72         | 11254.84  | 70.31    | 71.61          | 75.40   | 2.01     | 2.15            | 2.24     | 200.98           | 492.74   | 205.08                | 266.50   |
| 5                                     | 69.92           | 2.97              | 7.96          | 615.38         | 0.373            | 0.376        | 7076.80   | 7487.34          | 8205.18   | 50.95    | 54.86          | 57.63   | 1.77     | 1.98            | 2.10     | 201.14           | 488.39   | 192.72                | 301.37   |
| Section 622 Speed Maintenance Loop 27 |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                     | 54.45           | 54.95             | 34.50         | 980.93         | 0.028            | 0.028        | 280.76    | 555.23           | 783.56    | 4.96     | 6.75           | 8.72    | 0.70     | 0.84            | 0.92     | 150.93           | 446.28   | 167.93                | 254.52   |
| 2                                     | 54.95           | 55.07             | 34.51         | 70.01          | 0.028            | 0.028        | 105.60    | 552.88           | 921.97    | 4.28     | 6.64           | 9.09    | 0.77     | 0.95            | 1.02     | 334.88           | 513.95   | 238.73                | 337.76   |
| 3                                     | 55.07           | 54.95             | 34.51         | 70.02          | 0.028            | 0.028        | 91.52     | 553.66           | 937.61    | 4.24     | 6.90           | 9.29    | 0.86     | 1.04            | 1.10     | 432.31           | 560.57   | 307.55                | 398.57   |
| 4                                     | 55.07           | 54.95             | 34.51         | 75.03          | 0.037            | 0.037        | 306.56    | 738.21           | 1149.52   | 4.96     | 8.45           | 10.46   | 1.00     | 1.21            | 1.29     | 484.12           | 591.16   | 354.47                | 469.99   |
| 5                                     | 54.95           | 54.95             | 34.51         | 75.00          | 0.037            | 0.037        | 320.64    | 738.21           | 1174.54   | 5.13     | 8.91           | 10.81   | 1.09     | 1.32            | 1.51     | 537.37           | 619.24   | 417.26                | 505.69   |
| 6                                     | 54.95           | 54.95             | 34.51         | 75.00          | 0.037            | 0.037        | 398.83    | 735.08           | 1109.64   | 5.62     | 9.18           | 10.97   | 1.17     | 1.37            | 1.45     | 591.09           | 650.90   | 457.63                | 526.67   |
| 7                                     | 54.95           | 54.95             | 34.51         | 75.00          | 0.037            | 0.037        | 309.69    | 739.77           | 1165.16   | 5.16     | 9.22           | 11.15   | 1.17     | 1.40            | 1.49     | 630.76           | 674.02   | 480.97                | 537.43   |
| 8                                     | 55.07           | 54.95             | 34.51         | 75.03          | 0.037            | 0.037        | 363.65    | 742.12           | 1102.60   | 5.53     | 8.93           | 10.84   | 1.20     | 1.41            | 1.49     | 658.84           | 714.84   | 503.78                | 590.91   |
| 9                                     | 54.95           | 55.07             | 34.50         | 70.04          | 0.019            | 0.019        | 79.79     | 380.85           | 680.34    | 4.39     | 6.53           | 8.24    | 1.11     | 1.22            | 1.26     | 704.08           | 753.14   | 560.47                | 618.31   |
| 10                                    | 54.95           | 54.95             | 34.50         | 70.04          | 0.019            | 0.019        | 27.35     | 375.37           | 634.99    | 4.08     | 6.37           | 8.43    | 1.01     | 1.18            | 1.22     | 715.68           | 767.94   | 584.05                | 623.87   |
| 11                                    | 54.95           | 54.95             | 39.50         | 70.01          | 0.030            | 0.030        | 229.93    | 592.76           | 933.70    | 4.64     | 8.17           | 9.79    | 1.10     | 1.28            | 1.33     | 717.82           | 782.44   | 594.27                | 645.70   |
| Section 623 Cooling Loop 27           |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                     | 4.95            | 0.62              | 104.59        | 1113.83        | 0.000            | 0.001        | -18.96    | 22.64            | 55.55     | -0.11    | 0.01           | 0.11    | -0.03    | -0.01           | 0.01     | 225.32           | 205.49   | 301.52                | 283.21   |
| Section 631 Durability Loop 28        |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                     | 30.07           | 2.97              | 1.62          | 148.77         | 0.745            | 0.814        | 15170.13  | 16235.95         | 16910.78  | 96.21    | 110.48         | 118.79  | 2.32     | 2.37            | 2.40     | 200.15           | 345.57   | 275.96                | 277.49   |
| 2                                     | 50.00           | 2.97              | 3.33          | 292.64         | 0.621            | 0.635        | 11967.99  | 12667.06         | 13535.04  | 77.91    | 82.92          | 96.18   | 2.09     | 2.13            | 2.17     | 201.52           | 482.75   | 246.59                | 269.25   |
| 3                                     | 60.02           | 2.97              | 4.78          | 472.49         | 0.528            | 0.532        | 10110.04  | 10609.72         | 11337.73  | 70.54    | 75.07          | 78.05   | 1.96     | 2.10            | 2.19     | 200.98           | 486.79   | 220.19                | 281.30   |
| 4                                     | 60.02           | 2.97              | 4.78          | 593.80         | 0.528            | 0.531        | 10289.11  | 10588.60         | 11261.88  | 70.24    | 73.08          | 75.68   | 1.96     | 2.09            | 2.18     | 200.68           | 497.40   | 202.95                | 270.62   |
| 5                                     | 69.92           | 2.97              | 7.99          | 657.23         | 0.373            | 0.375        | 7069.77   | 7467.79          | 8104.31   | 51.58    | 56.09          | 59.14   | 1.74     | 1.96            | 2.08     | 200.98           | 486.18   | 188.91                | 303.81   |
| Section 632 Speed Maintenance Loop 28 |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                     | 54.33           | 55.07             | 34.50         | 955.90         | 0.028            | 0.028        | 269.81    | 556.01           | 788.25    | 4.87     | 6.44           | 8.62    | 0.68     | 0.82            | 0.91     | 150.93           | 428.58   | 167.62                | 253.15   |
| 2                                     | 54.95           | 54.95             | 34.52         | 70.02          | 0.028            | 0.028        | 65.72     | 551.32           | 973.58    | 4.04     | 6.25           | 9.11    | 0.74     | 0.94            | 1.03     | 315.51           | 512.50   | 236.82                | 331.97   |
| 3                                     | 55.07           | 54.95             | 34.51         | 70.02          | 0.028            | 0.028        | 53.99     | 556.79           | 947.77    | 4.02     | 6.73           | 9.24    | 0.82     | 1.04            | 1.11     | 406.60           | 574.99   | 301.90                | 391.55   |
| 4                                     | 54.95           | 55.07             | 34.51         | 75.02          | 0.037            | 0.037        | 253.39    | 733.51           | 1170.63   | 4.42     | 8.37           | 10.66   | 0.97     | 1.21            | 1.31     | 469.32           | 618.40   | 347.61                | 475.63   |
| 5                                     | 55.07           | 54.95             | 34.51         | 75.02          | 0.037            | 0.037        | 267.46    | 742.12           | 1180.02   | 4.65     | 8.94           | 10.96   | 1.09     | 1.32            | 1.41     | 545.31           | 675.17   | 417.11                | 519.65   |
| 6                                     | 54.95           | 55.07             | 34.50         | 75.01          | 0.037            | 0.037        | 309.69    | 728.82           | 1151.08   | 4.95     | 8.96           | 11.07   | 1.15     | 1.37            | 1.44     | 616.42           | 741.85   | 464.49                | 544.83   |
| 7                                     | 54.95           | 54.95             | 34.51         | 75.03          | 0.037            | 0.037        | 328.46    | 734.30           | 1126.06   | 5.07     | 9.21           | 11.11   | 1.16     | 1.39            | 1.48     | 659.75           | 718.58   | 491.27                | 545.21   |
| 8                                     | 54.95           | 54.95             | 34.51         | 75.00          | 0.037            | 0.037        | 323.76    | 742.12           | 1149.52   | 5.01     | 9.22           | 11.15   | 1.17     | 1.40            | 1.48     | 664.03           | 751.00   | 505.84                | 584.89   |
| 9                                     | 54.95           | 54.95             | 34.50         | 70.00          | 0.019            | 0.019        | 67.28     | 376.16           | 631.08    | 4.13     | 6.29           | 8.20    | 1.07     | 1.21            | 1.25     | 722.70           | 794.04   | 556.35                | 623.19   |
| 10                                    | 55.07           | 54.95             | 34.51         | 70.04          | 0.019            | 0.019        | 17.93     | 375.37           | 618.57    | 3.98     | 6.36           | 8.39    | 1.00     | 1.16            | 1.20     | 739.10           | 805.25   | 584.51                | 626.47   |
| 11                                    | 54.95           | 54.95             | 39.50         | 70.02          | 0.030            | 0.030        | 218.20    | 591.98           | 924.31    | 4.45     | 8.10           | 9.86    | 1.08     | 1.26            | 1.32     | 729.79           | 882.84   | 593.13                | 659.43   |
| Section 633 Cooling Loop 28           |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                     | 4.95            | 0.62              | 106.47        | 1099.50        | 0.000            | 0.001        | -14.25    | 23.42            | 60.24     | -0.16    | -0.04          | 0.08    | -0.01    | 0.01            | 0.02     | 225.48           | 204.95   | 299.31                | 280.77   |

Test Request #:  
112305-3-1



Customer Ref:

| Stop #                                       | Brake Speed mph | Release Speed mph | Stop Time sec | Cycle Time sec | Ret. Set Point g | Ret. Level g | -----<br>Min<br>lb-ft | Torque Avg (Time) lb-ft | -----<br>Max<br>lb-ft | -----<br>Min<br>psi | Pressure Avg (Time) psi | -----<br>Max<br>psi | -----<br>Min<br>inch | Stroke Avg (Time) inch | -----<br>Max<br>inch | Drum Temperature<br>Initial °F      Final °F |        | Lead Shoe Temperature<br>Initial °F      Final °F |        |
|----------------------------------------------|-----------------|-------------------|---------------|----------------|------------------|--------------|-----------------------|-------------------------|-----------------------|---------------------|-------------------------|---------------------|----------------------|------------------------|----------------------|----------------------------------------------|--------|---------------------------------------------------|--------|
| <b>Section 641 Durability Loop 29</b>        |                 |                   |               |                |                  |              |                       |                         |                       |                     |                         |                     |                      |                        |                      |                                              |        |                                                   |        |
| 1                                            | 29.95           | 2.97              | 1.61          | 134.84         | 0.745            | 0.823        | 15647.13              | 16406.42                | 16816.95              | 90.28               | 106.78                  | 118.30              | 2.22                 | 2.30                   | 2.33                 | 200.91                                       | 355.26 | 276.35                                            | 278.71 |
| 2                                            | 50.00           | 2.97              | 3.31          | 316.58         | 0.621            | 0.635        | 11959.39              | 12664.72                | 13552.25              | 76.10               | 81.67                   | 94.63               | 2.05                 | 2.09                   | 2.14                 | 200.37                                       | 496.94 | 243.69                                            | 271.31 |
| 3                                            | 60.02           | 2.97              | 4.75          | 327.01         | 0.528            | 0.531        | 10044.36              | 10594.08                | 11449.55              | 67.22               | 73.48                   | 76.90               | 1.90                 | 2.05                   | 2.14                 | 201.52                                       | 504.49 | 213.25                                            | 279.24 |
| 4                                            | 60.02           | 2.97              | 4.77          | 601.47         | 0.528            | 0.530        | 10199.97              | 10574.53                | 11290.81              | 69.00               | 71.99                   | 74.84               | 1.91                 | 2.05                   | 2.14                 | 201.14                                       | 502.58 | 198.37                                            | 268.03 |
| 5                                            | 70.05           | 2.97              | 7.98          | 678.59         | 0.373            | 0.375        | 7086.19               | 7470.91                 | 8048.00               | 52.45               | 57.27                   | 60.45               | 1.66                 | 1.89                   | 2.01                 | 200.83                                       | 509.91 | 184.41                                            | 301.52 |
| <b>Section 642 Speed Maintenance Loop 29</b> |                 |                   |               |                |                  |              |                       |                         |                       |                     |                         |                     |                      |                        |                      |                                              |        |                                                   |        |
| 1                                            | 54.33           | 55.07             | 34.51         | 947.75         | 0.028            | 0.027        | -37.79                | 545.06                  | 1140.14               | 3.45                | 6.40                    | 10.29               | 0.52                 | 0.78                   | 1.01                 | 150.02                                       | 439.56 | 165.41                                            | 243.69 |
| 2                                            | 54.95           | 55.07             | 34.51         | 70.02          | 0.028            | 0.027        | 415.25                | 547.41                  | 734.30                | 5.34                | 7.11                    | 7.95                | 0.83                 | 0.91                   | 0.99                 | 323.21                                       | 609.25 | 228.58                                            | 322.81 |
| 3                                            | 54.95           | 54.95             | 34.50         | 70.02          | 0.028            | 0.028        | 414.47                | 552.10                  | 787.47                | 6.40                | 7.46                    | 8.25                | 0.93                 | 1.01                   | 1.07                 | 445.82                                       | 696.53 | 294.35                                            | 386.75 |
| 4                                            | 55.07           | 54.95             | 34.51         | 75.03          | 0.037            | 0.037        | 513.78                | 735.86                  | 992.34                | 7.68                | 9.28                    | 9.99                | 1.06                 | 1.20                   | 1.30                 | 521.05                                       | 779.69 | 343.79                                            | 470.37 |
| 5                                            | 54.95           | 55.07             | 34.50         | 75.01          | 0.037            | 0.037        | 466.08                | 741.33                  | 1010.33               | 8.60                | 9.87                    | 10.48               | 1.16                 | 1.28                   | 1.37                 | 600.93                                       | 727.05 | 409.41                                            | 514.47 |
| 6                                            | 54.95           | 54.95             | 34.50         | 75.02          | 0.037            | 0.037        | 484.85                | 746.81                  | 1053.34               | 8.94                | 9.98                    | 10.82               | 1.22                 | 1.33                   | 1.39                 | 636.33                                       | 750.85 | 456.63                                            | 547.65 |
| 7                                            | 54.95           | 55.07             | 34.51         | 75.00          | 0.037            | 0.037        | 532.55                | 745.24                  | 956.37                | 9.32                | 10.13                   | 10.68               | 1.25                 | 1.36                   | 1.43                 | 676.08                                       | 749.02 | 490.05                                            | 548.49 |
| 8                                            | 54.95           | 54.95             | 34.50         | 75.03          | 0.037            | 0.037        | 581.81                | 729.60                  | 910.24                | 9.18                | 10.09                   | 10.66               | 1.27                 | 1.36                   | 1.43                 | 683.18                                       | 776.03 | 507.07                                            | 583.97 |
| 9                                            | 54.95           | 54.95             | 34.51         | 70.02          | 0.019            | 0.019        | 170.50                | 377.72                  | 621.69                | 5.82                | 6.57                    | 7.55                | 1.14                 | 1.17                   | 1.20                 | 732.62                                       | 792.74 | 550.33                                            | 611.13 |
| 10                                           | 54.95           | 55.07             | 34.52         | 70.04          | 0.019            | 0.019        | 266.68                | 375.37                  | 522.38                | 6.71                | 7.32                    | 7.96                | 1.10                 | 1.14                   | 1.17                 | 738.87                                       | 809.22 | 573.37                                            | 614.41 |
| 11                                           | 54.95           | 54.95             | 39.50         | 70.03          | 0.030            | 0.030        | 394.14                | 595.89                  | 832.04                | 7.59                | 8.72                    | 9.47                | 1.10                 | 1.22                   | 1.28                 | 729.95                                       | 880.86 | 580.39                                            | 647.37 |
| <b>Section 643 Cooling Loop 29</b>           |                 |                   |               |                |                  |              |                       |                         |                       |                     |                         |                     |                      |                        |                      |                                              |        |                                                   |        |
| 1                                            | 4.95            | 0.62              | 100.12        | 1105.98        | 0.000            | 0.001        | -18.96                | 25.78                   | 83.70                 | -0.11               | 0.02                    | 0.12                | -0.02                | 0.00                   | 0.01                 | 225.48                                       | 205.87 | 295.57                                            | 278.71 |
| <b>Section 651 Durability Loop 30</b>        |                 |                   |               |                |                  |              |                       |                         |                       |                     |                         |                     |                      |                        |                      |                                              |        |                                                   |        |
| 1                                            | 29.95           | 2.97              | 1.68          | 148.19         | 0.745            | 0.811        | 14745.52              | 16166.35                | 17077.34              | 111.57              | 116.72                  | 118.68              | 2.22                 | 2.29                   | 2.32                 | 200.45                                       | 350.07 | 271.31                                            | 273.37 |
| 2                                            | 50.00           | 2.97              | 3.32          | 332.20         | 0.621            | 0.639        | 12245.59              | 12738.22                | 13373.96              | 84.01               | 87.36                   | 94.25               | 2.05                 | 2.10                   | 2.14                 | 200.68                                       | 500.29 | 236.67                                            | 264.67 |
| 3                                            | 59.90           | 2.97              | 4.78          | 581.99         | 0.528            | 0.530        | 10020.90              | 10558.11                | 11151.62              | 72.49               | 76.30                   | 79.47               | 1.87                 | 2.04                   | 2.14                 | 201.67                                       | 509.45 | 202.49                                            | 273.75 |
| 4                                            | 60.02           | 2.97              | 4.81          | 628.57         | 0.528            | 0.529        | 10248.45              | 10536.21                | 11121.12              | 71.64               | 74.12                   | 76.29               | 1.88                 | 2.04                   | 2.14                 | 200.83                                       | 500.98 | 189.29                                            | 266.05 |
| 5                                            | 69.92           | 2.97              | 7.96          | 635.96         | 0.373            | 0.375        | 7072.11               | 7480.30                 | 8087.88               | 53.70               | 57.11                   | 60.31               | 1.67                 | 1.91                   | 2.04                 | 201.59                                       | 494.73 | 183.72                                            | 308.92 |
| <b>Section 652 Speed Maintenance Loop 30</b> |                 |                   |               |                |                  |              |                       |                         |                       |                     |                         |                     |                      |                        |                      |                                              |        |                                                   |        |
| 1                                            | 54.33           | 55.07             | 34.49         | 986.20         | 0.028            | 0.028        | 401.18                | 552.88                  | 808.58                | 6.09                | 6.76                    | 7.75                | 0.70                 | 0.78                   | 0.86                 | 150.48                                       | 442.16 | 164.57                                            | 252.92 |
| 2                                            | 54.95           | 54.95             | 34.51         | 70.01          | 0.028            | 0.028        | 340.19                | 559.14                  | 828.13                | 5.04                | 6.59                    | 7.69                | 0.80                 | 0.89                   | 0.97                 | 329.09                                       | 507.70 | 234.38                                            | 342.95 |
| 3                                            | 55.07           | 54.95             | 34.51         | 70.02          | 0.028            | 0.028        | 389.45                | 552.88                  | 802.33                | 5.02                | 7.17                    | 7.99                | 0.90                 | 0.98                   | 1.06                 | 430.56                                       | 544.70 | 305.11                                            | 389.49 |
| 4                                            | 54.95           | 55.07             | 34.51         | 75.01          | 0.037            | 0.037        | 588.85                | 736.64                  | 883.65                | 7.36                | 9.31                    | 10.50               | 1.01                 | 1.16                   | 1.29                 | 475.42                                       | 572.62 | 343.94                                            | 471.89 |
| 5                                            | 54.95           | 54.95             | 34.50         | 75.05          | 0.037            | 0.037        | 494.23                | 738.99                  | 991.56                | 8.21                | 9.75                    | 10.48               | 1.12                 | 1.25                   | 1.34                 | 514.33                                       | 601.69 | 410.25                                            | 514.08 |
| 6                                            | 55.07           | 54.95             | 34.51         | 75.03          | 0.037            | 0.037        | 471.56                | 737.42                  | 1072.10               | 8.79                | 9.75                    | 10.38               | 1.19                 | 1.31                   | 1.38                 | 565.83                                       | 630.07 | 455.87                                            | 540.25 |
| 7                                            | 54.95           | 54.95             | 34.50         | 75.00          | 0.037            | 0.037        | 477.81                | 739.77                  | 999.38                | 8.86                | 9.64                    | 10.60               | 1.23                 | 1.33                   | 1.41                 | 608.10                                       | 660.90 | 484.63                                            | 555.21 |
| 8                                            | 55.07           | 54.95             | 34.52         | 75.01          | 0.037            | 0.037        | 527.08                | 742.12                  | 978.27                | 8.71                | 9.59                    | 10.46               | 1.25                 | 1.34                   | 1.41                 | 641.37                                       | 696.30 | 509.13                                            | 595.03 |
| 9                                            | 54.95           | 54.95             | 34.52         | 70.01          | 0.019            | 0.019        | 118.89                | 380.07                  | 703.02                | 5.56                | 6.48                    | 7.49                | 1.11                 | 1.15                   | 1.17                 | 696.45                                       | 746.66 | 558.57                                            | 625.17 |
| 10                                           | 54.95           | 54.95             | 34.53         | 70.01          | 0.019            | 0.019        | 222.11                | 374.59                  | 530.20                | 6.18                | 6.94                    | 7.89                | 0.26                 | 1.11                   | 1.13                 | 715.68                                       | 761.30 | 582.29                                            | 625.55 |
| 11                                           | 54.95           | 55.07             | 39.50         | 70.04          | 0.030            | 0.030        | 394.14                | 598.23                  | 829.70                | 7.93                | 8.82                    | 9.47                | 1.07                 | 1.20                   | 1.26                 | 707.67                                       | 773.97 | 589.31                                            | 654.09 |
| <b>Section 653 Cooling Loop 30</b>           |                 |                   |               |                |                  |              |                       |                         |                       |                     |                         |                     |                      |                        |                      |                                              |        |                                                   |        |
| 1                                            | 4.95            | 0.62              | 98.58         | 1123.26        | 0.000            | 0.001        | -15.03                | 26.56                   | 65.72                 | -0.13               | -0.02                   | 0.09                | -0.02                | 0.00                   | 0.01                 | 225.78                                       | 206.78 | 295.19                                            | 278.41 |

Test Request #:  
112305-3-1



Customer Ref:

| Stop #                                | Brake Speed mph | Release Speed mph | Stop Time sec | Cycle Time sec | Ret. Set Point g | Ret. Level g | Torque    |                  |           | Pressure |                |         | Stroke   |                 |          | Drum Temperature |          | Lead Shoe Temperature |          |
|---------------------------------------|-----------------|-------------------|---------------|----------------|------------------|--------------|-----------|------------------|-----------|----------|----------------|---------|----------|-----------------|----------|------------------|----------|-----------------------|----------|
|                                       |                 |                   |               |                |                  |              | Min lb-ft | Avg (Time) lb-ft | Max lb-ft | Min psi  | Avg (Time) psi | Max psi | Min inch | Avg (Time) inch | Max inch | Initial °F       | Final °F | Initial °F            | Final °F |
| Section 711 Durability Loop 31        |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                     | 29.95           | 2.97              | 1.64          | 72.35          | 0.745            | 0.751        | 14112.92  | 14969.95         | 15766.77  | 109.50   | 113.13         | 114.88  | 2.51     | 2.58            | 2.62     | 201.14           | 311.46   | 122.76                | 127.26   |
| 2                                     | 49.63           | 2.97              | 3.39          | 118.82         | 0.621            | 0.615        | 11853.04  | 12259.66         | 12479.39  | 87.02    | 93.54          | 97.78   | 2.31     | 2.46            | 2.56     | 201.06           | 421.10   | 132.60                | 170.37   |
| 3                                     | 60.02           | 2.97              | 4.85          | 333.17         | 0.528            | 0.523        | 9932.54   | 10434.56         | 11143.02  | 72.33    | 78.21          | 83.19   | 2.15     | 2.34            | 2.46     | 201.37           | 471.23   | 145.65                | 217.37   |
| 4                                     | 60.02           | 2.97              | 4.81          | 538.55         | 0.528            | 0.528        | 10128.81  | 10527.61         | 11224.34  | 70.39    | 73.70          | 76.41   | 2.09     | 2.26            | 2.37     | 201.14           | 493.96   | 159.76                | 235.45   |
| 5                                     | 69.92           | 2.97              | 7.99          | 549.34         | 0.373            | 0.374        | 7039.27   | 7463.88          | 8173.12   | 51.75    | 55.22          | 58.29   | 1.83     | 2.05            | 2.18     | 200.53           | 492.21   | 170.90                | 285.73   |
| Section 712 Speed Maintenance Loop 31 |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                     | 54.45           | 54.95             | 34.50         | 931.15         | 0.028            | 0.028        | 428.55    | 563.83           | 689.72    | 6.43     | 7.06           | 7.81    | 0.81     | 0.90            | 0.99     | 151.24           | 453.45   | 159.76                | 249.57   |
| 2                                     | 54.95           | 54.95             | 34.51         | 70.00          | 0.028            | 0.028        | 416.82    | 558.35           | 717.87    | 4.73     | 6.80           | 7.81    | 0.91     | 1.01            | 1.09     | 326.95           | 558.20   | 233.01                | 336.09   |
| 3                                     | 55.07           | 54.95             | 34.52         | 70.01          | 0.028            | 0.028        | 412.91    | 548.97           | 706.15    | 5.03     | 7.00           | 8.06    | 1.01     | 1.10            | 1.16     | 448.41           | 642.97   | 303.05                | 393.61   |
| 4                                     | 54.95           | 55.07             | 34.51         | 75.03          | 0.037            | 0.037        | 579.47    | 735.08           | 933.70    | 7.05     | 8.80           | 9.39    | 1.15     | 1.26            | 1.36     | 510.21           | 716.06   | 349.28                | 477.69   |
| 5                                     | 54.95           | 54.95             | 34.51         | 75.02          | 0.037            | 0.037        | 534.90    | 736.64           | 966.54    | 7.33     | 9.33           | 10.11   | 1.25     | 1.37            | 1.45     | 569.80           | 723.61   | 417.11                | 520.26   |
| 6                                     | 54.95           | 54.95             | 34.51         | 75.02          | 0.037            | 0.037        | 545.84    | 734.30           | 932.91    | 8.27     | 9.62           | 10.40   | 1.31     | 1.42            | 1.49     | 619.70           | 761.99   | 464.19                | 541.63   |
| 7                                     | 54.95           | 54.95             | 34.51         | 75.01          | 0.037            | 0.037        | 527.86    | 744.46           | 945.43    | 8.71     | 9.61           | 10.36   | 1.33     | 1.44            | 1.52     | 674.71           | 780.38   | 491.42                | 557.19   |
| 8                                     | 55.07           | 54.95             | 34.50         | 75.03          | 0.037            | 0.037        | 571.65    | 740.55           | 869.58    | 8.54     | 9.62           | 10.88   | 1.34     | 1.44            | 1.53     | 680.58           | 762.07   | 513.47                | 573.67   |
| 9                                     | 54.95           | 55.07             | 34.51         | 70.04          | 0.019            | 0.019        | 173.63    | 379.28           | 642.81    | 5.09     | 6.37           | 7.62    | 1.19     | 1.25            | 1.27     | 727.96           | 781.68   | 544.53                | 604.57   |
| 10                                    | 55.07           | 54.95             | 34.51         | 70.01          | 0.019            | 0.019        | 247.91    | 370.68           | 520.04    | 5.66     | 6.69           | 7.62    | 1.17     | 1.21            | 1.24     | 736.51           | 811.43   | 573.21                | 619.37   |
| 11                                    | 55.07           | 54.95             | 39.50         | 70.04          | 0.030            | 0.030        | 424.64    | 599.80           | 792.94    | 7.46     | 8.44           | 9.13    | 1.09     | 1.26            | 1.33     | 727.35           | 883.00   | 587.25                | 658.51   |
| Section 713 Cooling Loop 31           |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                     | 5.07            | 0.62              | 101.30        | 1074.92        | 0.000            | 0.001        | -31.52    | 17.14            | 49.30     | -0.15    | -0.03          | 0.06    | -0.03    | -0.01           | 0.00     | 225.63           | 204.72   | 297.78                | 279.55   |
| Section 721 Durability Loop 32        |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                     | 30.07           | 2.97              | 1.62          | 129.40         | 0.745            | 0.819        | 14998.88  | 16322.75         | 17196.98  | 101.60   | 109.19         | 112.52  | 2.26     | 2.31            | 2.33     | 200.98           | 350.91   | 275.43                | 276.35   |
| 2                                     | 50.00           | 2.97              | 3.31          | 279.40         | 0.621            | 0.639        | 12190.85  | 12739.79         | 13413.84  | 80.30    | 83.56          | 90.47   | 2.07     | 2.13            | 2.17     | 200.91           | 501.52   | 246.13                | 273.52   |
| 3                                     | 60.02           | 2.97              | 4.79          | 540.93         | 0.528            | 0.531        | 10112.39  | 10578.44         | 11065.60  | 70.69    | 74.12          | 77.06   | 1.90     | 2.08            | 2.19     | 200.91           | 516.16   | 210.73                | 273.90   |
| 4                                     | 60.02           | 2.97              | 4.79          | 620.52         | 0.528            | 0.529        | 10192.93  | 10554.20         | 11004.61  | 70.48    | 72.86          | 74.63   | 1.93     | 2.11            | 2.21     | 200.91           | 498.16   | 192.19                | 259.33   |
| 5                                     | 69.92           | 2.97              | 7.97          | 731.57         | 0.373            | 0.376        | 7025.98   | 7492.81          | 7984.66   | 52.99    | 55.95          | 58.87   | 1.69     | 1.94            | 2.06     | 200.68           | 494.04   | 175.71                | 292.75   |
| Section 722 Speed Maintenance Loop 32 |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                     | 54.45           | 54.95             | 34.50         | 921.70         | 0.028            | 0.028        | 443.41    | 553.66           | 686.60    | 6.60     | 7.16           | 7.86    | 0.73     | 0.82            | 0.91     | 150.71           | 445.29   | 160.91                | 243.69   |
| 2                                     | 54.95           | 54.95             | 34.51         | 70.01          | 0.028            | 0.028        | 398.83    | 555.23           | 727.26    | 5.91     | 6.89           | 7.62    | 0.84     | 0.92            | 1.00     | 326.80           | 576.59   | 228.20                | 328.30   |
| 3                                     | 55.07           | 54.95             | 34.51         | 70.00          | 0.028            | 0.028        | 412.91    | 552.88           | 717.87    | 5.48     | 7.15           | 8.06    | 0.94     | 1.02            | 1.08     | 454.90           | 695.31   | 296.95                | 382.09   |
| 4                                     | 54.95           | 55.07             | 34.50         | 75.02          | 0.037            | 0.037        | 552.88    | 731.17           | 961.85    | 7.88     | 9.04           | 9.64    | 0.26     | 1.17            | 1.28     | 524.86           | 805.63   | 342.72                | 473.27   |
| 5                                     | 54.95           | 54.95             | 34.50         | 75.04          | 0.037            | 0.037        | 529.42    | 737.42           | 968.10    | 8.15     | 9.67           | 10.28   | 1.13     | 1.26            | 1.35     | 606.58           | 747.65   | 411.31                | 513.63   |
| 6                                     | 55.07           | 54.95             | 34.51         | 75.03          | 0.037            | 0.036        | 527.86    | 723.35           | 985.31    | 8.67     | 9.85           | 10.56   | 1.18     | 1.31            | 1.38     | 641.06           | 749.78   | 457.63                | 531.33   |
| 7                                     | 54.95           | 55.07             | 34.50         | 75.03          | 0.037            | 0.037        | 518.47    | 746.03           | 935.26    | 8.66     | 9.95           | 10.51   | 1.22     | 1.34            | 1.42     | 672.65           | 756.19   | 481.89                | 540.86   |
| 8                                     | 54.95           | 54.95             | 34.51         | 75.02          | 0.037            | 0.037        | 534.11    | 742.90           | 925.88    | 8.30     | 9.67           | 10.38   | 1.25     | 1.35            | 1.43     | 679.67           | 760.77   | 501.11                | 566.81   |
| 9                                     | 55.07           | 55.07             | 34.51         | 70.02          | 0.019            | 0.018        | 265.12    | 359.74           | 491.89    | 5.94     | 6.69           | 7.80    | 1.12     | 1.15            | 1.19     | 722.01           | 763.82   | 538.19                | 599.77   |
| 10                                    | 54.95           | 54.95             | 34.50         | 70.01          | 0.019            | 0.018        | 273.72    | 362.86           | 497.36    | 6.21     | 6.96           | 7.75    | 1.07     | 1.10            | 1.13     | 714.99           | 796.10   | 567.49                | 613.19   |
| 11                                    | 54.95           | 55.07             | 39.50         | 70.02          | 0.030            | 0.030        | 353.48    | 599.80           | 862.54    | 7.71     | 8.47           | 9.24    | 1.07     | 1.19            | 1.25     | 723.31           | 876.89   | 581.07                | 656.61   |
| Section 723 Cooling Loop 32           |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                     | 4.95            | 0.62              | 92.09         | 1080.70        | 0.000            | 0.001        | -11.89    | 24.99            | 61.03     | -0.12    | -0.01          | 0.10    | -0.03    | -0.01           | 0.00     | 225.40           | 206.17   | 292.75                | 276.80   |

Test Request #:  
112305-3-1



Customer Ref:

| Stop #                                       | Brake Speed mph | Release Speed mph | Stop Time sec | Cycle Time sec | Ret. Set Point g | Ret. Level g | -----<br>Min<br>lb-ft | Torque Avg (Time) lb-ft | -----<br>Max<br>lb-ft | -----<br>Min<br>psi | Pressure Avg (Time) psi | -----<br>Max<br>psi | -----<br>Min<br>inch | Stroke Avg (Time) inch | -----<br>Max<br>inch | Drum Temperature<br>Initial °F      Final °F |        | Lead Shoe Temperature<br>Initial °F      Final °F |        |
|----------------------------------------------|-----------------|-------------------|---------------|----------------|------------------|--------------|-----------------------|-------------------------|-----------------------|---------------------|-------------------------|---------------------|----------------------|------------------------|----------------------|----------------------------------------------|--------|---------------------------------------------------|--------|
| <b>Section 731 Durability Loop 33</b>        |                 |                   |               |                |                  |              |                       |                         |                       |                     |                         |                     |                      |                        |                      |                                              |        |                                                   |        |
| 1                                            | 29.95           | 2.97              | 1.60          | 136.08         | 0.745            | 0.827        | 15525.14              | 16492.43                | 17293.94              | 100.58              | 109.23                  | 114.27              | 2.22                 | 2.27                   | 2.29                 | 201.21                                       | 339.16 | 268.94                                            | 270.17 |
| 2                                            | 50.00           | 2.97              | 3.29          | 309.33         | 0.621            | 0.640        | 12251.84              | 12752.30                | 13403.67              | 80.26               | 83.64                   | 90.42               | 2.01                 | 2.07                   | 2.11                 | 200.83                                       | 480.23 | 237.21                                            | 265.28 |
| 3                                            | 60.02           | 2.97              | 4.79          | 566.80         | 0.528            | 0.531        | 10129.59              | 10592.51                | 11023.38              | 70.84               | 73.56                   | 76.14               | 1.83                 | 2.01                   | 2.11                 | 200.45                                       | 503.04 | 202.95                                            | 272.53 |
| 4                                            | 60.02           | 2.97              | 4.76          | 637.82         | 0.528            | 0.530        | 10295.37              | 10569.06                | 11032.76              | 70.96               | 72.48                   | 73.69               | 1.85                 | 2.02                   | 2.12                 | 200.76                                       | 499.68 | 188.53                                            | 261.39 |
| 5                                            | 69.92           | 2.97              | 7.98          | 782.95         | 0.373            | 0.375        | 7089.32               | 7473.26                 | 7912.72               | 53.33               | 56.38                   | 59.22               | 1.61                 | 1.87                   | 1.99                 | 200.98                                       | 493.05 | 172.05                                            | 294.81 |
| <b>Section 732 Speed Maintenance Loop 33</b> |                 |                   |               |                |                  |              |                       |                         |                       |                     |                         |                     |                      |                        |                      |                                              |        |                                                   |        |
| 1                                            | 54.33           | 54.95             | 34.51         | 941.23         | 0.028            | 0.027        | 443.41                | 545.84                  | 673.30                | 6.31                | 6.91                    | 7.73                | 0.65                 | 0.73                   | 0.82                 | 151.54                                       | 412.86 | 159.69                                            | 240.79 |
| 2                                            | 54.95           | 54.95             | 34.49         | 70.00          | 0.028            | 0.027        | 426.20                | 540.37                  | 705.36                | 5.11                | 6.73                    | 7.68                | 0.76                 | 0.84                   | 0.92                 | 314.06                                       | 507.01 | 224.31                                            | 321.13 |
| 3                                            | 55.07           | 54.95             | 34.51         | 70.02          | 0.028            | 0.027        | 444.97                | 538.81                  | 675.65                | 6.71                | 7.21                    | 7.75                | 0.86                 | 0.93                   | 1.00                 | 424.91                                       | 559.27 | 288.32                                            | 381.86 |
| 4                                            | 54.95           | 55.07             | 34.51         | 75.01          | 0.037            | 0.037        | 573.99                | 730.39                  | 968.10                | 7.36                | 8.91                    | 9.48                | 0.98                 | 1.10                   | 1.21                 | 487.40                                       | 596.12 | 336.77                                            | 475.17 |
| 5                                            | 55.07           | 54.95             | 34.50         | 75.02          | 0.037            | 0.037        | 489.54                | 736.64                  | 949.34                | 7.93                | 9.60                    | 10.26               | 1.10                 | 1.22                   | 1.31                 | 534.02                                       | 609.55 | 408.57                                            | 514.77 |
| 6                                            | 55.07           | 55.07             | 34.51         | 75.03          | 0.037            | 0.037        | 509.09                | 734.30                  | 964.19                | 8.51                | 9.95                    | 10.61               | 1.16                 | 1.27                   | 1.51                 | 569.50                                       | 633.66 | 455.03                                            | 535.91 |
| 7                                            | 54.95           | 54.95             | 34.51         | 75.03          | 0.037            | 0.036        | 532.55                | 727.26                  | 998.60                | 8.94                | 10.08                   | 10.61               | 1.19                 | 1.30                   | 1.38                 | 604.29                                       | 655.25 | 483.03                                            | 554.29 |
| 8                                            | 55.07           | 54.95             | 34.51         | 75.02          | 0.037            | 0.037        | 531.77                | 742.90                  | 921.97                | 9.31                | 9.95                    | 10.60               | 1.20                 | 1.30                   | 1.38                 | 632.82                                       | 674.48 | 507.45                                            | 576.49 |
| 9                                            | 55.07           | 55.07             | 34.51         | 70.03          | 0.019            | 0.020        | 318.29                | 405.09                  | 487.20                | 7.13                | 7.67                    | 8.17                | 1.08                 | 1.13                   | 1.15                 | 668.15                                       | 709.96 | 544.53                                            | 611.67 |
| 10                                           | 54.95           | 54.95             | 34.52         | 70.02          | 0.019            | 0.020        | 266.68                | 394.92                  | 504.40                | 6.56                | 7.54                    | 7.96                | 1.03                 | 1.08                   | 1.11                 | 686.08                                       | 737.35 | 574.05                                            | 623.19 |
| 11                                           | 55.07           | 54.95             | 39.51         | 70.02          | 0.030            | 0.030        | 344.10                | 601.36                  | 883.65                | 8.13                | 8.76                    | 9.51                | 1.04                 | 1.18                   | 1.24                 | 694.32                                       | 755.12 | 587.63                                            | 663.47 |
| <b>Section 733 Cooling Loop 33</b>           |                 |                   |               |                |                  |              |                       |                         |                       |                     |                         |                     |                      |                        |                      |                                              |        |                                                   |        |
| 1                                            | 5.07            | 0.62              | 89.10         | 1097.97        | 0.000            | 0.001        | -12.68                | 28.92                   | 68.06                 | -0.11               | 0.00                    | 0.11                | -0.03                | -0.01                  | 0.00                 | 225.78                                       | 208.00 | 292.44                                            | 277.03 |
| <b>Section 741 Durability Loop 34</b>        |                 |                   |               |                |                  |              |                       |                         |                       |                     |                         |                     |                      |                        |                      |                                              |        |                                                   |        |
| 1                                            | 30.07           | 2.97              | 1.62          | 144.67         | 0.745            | 0.816        | 15356.24              | 16271.14                | 17169.61              | 106.40              | 113.10                  | 116.61              | 2.20                 | 2.24                   | 2.26                 | 200.45                                       | 335.80 | 267.34                                            | 270.17 |
| 2                                            | 50.00           | 2.97              | 3.31          | 305.61         | 0.621            | 0.638        | 12249.50              | 12711.64                | 13228.51              | 81.59               | 84.61                   | 90.61               | 1.95                 | 2.02                   | 2.06                 | 201.06                                       | 470.16 | 237.13                                            | 267.34 |
| 3                                            | 60.02           | 2.97              | 4.76          | 504.03         | 0.528            | 0.534        | 10278.95              | 10641.00                | 11030.41              | 71.26               | 73.63                   | 75.15               | 1.78                 | 1.97                   | 2.07                 | 202.51                                       | 483.36 | 210.73                                            | 280.08 |
| 4                                            | 60.02           | 2.97              | 4.77          | 641.98         | 0.528            | 0.531        | 10366.53              | 10590.17                | 10795.82              | 73.16               | 74.61                   | 75.76               | 1.79                 | 1.98                   | 2.08                 | 201.44                                       | 502.35 | 192.72                                            | 266.05 |
| 5                                            | 69.92           | 2.97              | 7.98          | 732.98         | 0.373            | 0.375        | 7116.68               | 7475.61                 | 7862.68               | 54.99               | 57.90                   | 60.65               | 1.55                 | 1.81                   | 1.93                 | 201.14                                       | 492.36 | 178.23                                            | 300.53 |
| <b>Section 742 Speed Maintenance Loop 34</b> |                 |                   |               |                |                  |              |                       |                         |                       |                     |                         |                     |                      |                        |                      |                                              |        |                                                   |        |
| 1                                            | 54.21           | 54.95             | 34.52         | 953.56         | 0.028            | 0.027        | 430.89                | 545.06                  | 699.11                | 6.49                | 6.95                    | 7.81                | 0.61                 | 0.69                   | 0.78                 | 150.40                                       | 399.66 | 161.06                                            | 239.27 |
| 2                                            | 54.95           | 54.95             | 34.50         | 70.01          | 0.028            | 0.028        | 402.74                | 553.66                  | 778.87                | 5.00                | 6.73                    | 7.79                | 0.71                 | 0.80                   | 0.89                 | 316.12                                       | 484.50 | 222.71                                            | 321.28 |
| 3                                            | 54.95           | 54.95             | 34.51         | 70.02          | 0.028            | 0.028        | 405.87                | 551.32                  | 726.48                | 6.39                | 7.40                    | 8.10                | 0.82                 | 0.89                   | 0.97                 | 422.93                                       | 545.08 | 290.38                                            | 375.91 |
| 4                                            | 55.07           | 54.95             | 34.51         | 75.03          | 0.037            | 0.037        | 576.34                | 732.73                  | 900.85                | 8.31                | 9.39                    | 10.02               | 0.94                 | 1.08                   | 1.91                 | 486.64                                       | 608.25 | 334.71                                            | 468.31 |
| 5                                            | 54.95           | 55.07             | 34.50         | 75.03          | 0.037            | 0.037        | 513.78                | 734.30                  | 956.37                | 8.15                | 9.92                    | 10.54               | 1.06                 | 1.18                   | 1.27                 | 559.35                                       | 640.60 | 404.90                                            | 507.45 |
| 6                                            | 54.95           | 54.95             | 34.50         | 75.01          | 0.037            | 0.037        | 457.48                | 739.77                  | 989.22                | 8.84                | 9.91                    | 10.57               | 1.10                 | 1.24                   | 1.51                 | 613.82                                       | 678.68 | 450.45                                            | 542.47 |
| 7                                            | 54.95           | 55.07             | 34.51         | 75.02          | 0.037            | 0.037        | 510.65                | 741.33                  | 1040.83               | 9.26                | 9.92                    | 10.73               | 1.17                 | 1.27                   | 1.34                 | 656.63                                       | 713.08 | 486.85                                            | 569.09 |
| 8                                            | 54.95           | 55.07             | 34.50         | 75.03          | 0.037            | 0.037        | 516.13                | 731.95                  | 930.57                | 9.24                | 10.22                   | 10.76               | 1.18                 | 1.28                   | 1.35                 | 682.34                                       | 725.14 | 518.59                                            | 590.91 |
| 9                                            | 55.07           | 54.95             | 34.52         | 70.02          | 0.019            | 0.019        | 173.63                | 381.63                  | 595.11                | 6.36                | 6.88                    | 7.62                | 1.05                 | 1.09                   | 1.11                 | 716.59                                       | 747.72 | 554.29                                            | 610.07 |
| 10                                           | 54.95           | 54.95             | 34.52         | 70.04          | 0.019            | 0.020        | 312.04                | 408.22                  | 492.67                | 6.98                | 7.95                    | 8.37                | 1.01                 | 1.06                   | 1.10                 | 718.12                                       | 759.09 | 572.99                                            | 618.69 |
| 11                                           | 54.95           | 55.07             | 39.51         | 70.01          | 0.030            | 0.030        | 391.80                | 595.11                  | 896.16                | 7.73                | 8.88                    | 9.65                | 1.02                 | 1.16                   | 1.24                 | 718.12                                       | 788.08 | 583.29                                            | 651.49 |
| <b>Section 743 Cooling Loop 34</b>           |                 |                   |               |                |                  |              |                       |                         |                       |                     |                         |                     |                      |                        |                      |                                              |        |                                                   |        |
| 1                                            | 5.07            | 0.62              | 91.01         | 1096.25        | 0.000            | 0.001        | -10.32                | 28.13                   | 69.63                 | -0.13               | -0.02                   | 0.13                | -0.03                | -0.02                  | 0.00                 | 225.86                                       | 207.09 | 291.60                                            | 275.96 |

Test Request #:  
112305-3-1



Customer Ref:

| Stop #                                | Brake Speed mph | Release Speed mph | Stop Time sec | Cycle Time sec | Ret. Set Point g | Ret. Level g | Torque    |                  |           | Pressure |                |         | Stroke   |                 |          | Drum Temperature |          | Lead Shoe Temperature |          |
|---------------------------------------|-----------------|-------------------|---------------|----------------|------------------|--------------|-----------|------------------|-----------|----------|----------------|---------|----------|-----------------|----------|------------------|----------|-----------------------|----------|
|                                       |                 |                   |               |                |                  |              | Min lb-ft | Avg (Time) lb-ft | Max lb-ft | Min psi  | Avg (Time) psi | Max psi | Min inch | Avg (Time) inch | Max inch | Initial °F       | Final °F | Initial °F            | Final °F |
| Section 751 Durability Loop 35        |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                     | 30.07           | 2.97              | 1.62          | 138.34         | 0.745            | 0.814        | 14977.77  | 16217.96         | 17078.12  | 107.55   | 114.47         | 117.84  | 2.16     | 2.22            | 2.24     | 201.21           | 327.18   | 268.41                | 270.17   |
| 2                                     | 50.00           | 2.97              | 3.30          | 356.31         | 0.621            | 0.638        | 12306.58  | 12717.89         | 13254.32  | 83.92    | 87.27          | 93.17   | 1.95     | 2.03            | 2.06     | 200.76           | 468.63   | 231.03                | 261.01   |
| 3                                     | 60.02           | 2.97              | 4.82          | 506.90         | 0.528            | 0.529        | 10128.81  | 10544.81         | 10929.54  | 73.01    | 76.41          | 79.32   | 1.78     | 1.98            | 2.08     | 202.13           | 506.63   | 206.38                | 280.39   |
| 4                                     | 60.02           | 2.97              | 4.77          | 683.74         | 0.528            | 0.530        | 10318.83  | 10558.89         | 10997.57  | 73.28    | 75.00          | 76.51   | 1.82     | 2.00            | 2.10     | 201.67           | 504.26   | 187.69                | 265.28   |
| 5                                     | 69.92           | 2.97              | 8.02          | 792.81         | 0.373            | 0.375        | 7157.35   | 7475.61          | 7767.28   | 56.01    | 58.42          | 60.56   | 1.56     | 1.83            | 1.96     | 201.44           | 500.83   | 172.05                | 301.90   |
| Section 752 Speed Maintenance Loop 35 |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                     | 54.33           | 55.07             | 34.51         | 959.71         | 0.028            | 0.028        | 424.64    | 556.01           | 760.10    | 6.00     | 6.65           | 7.64    | 0.63     | 0.71            | 0.79     | 150.86           | 409.73   | 159.00                | 241.25   |
| 2                                     | 55.07           | 54.95             | 34.51         | 70.03          | 0.028            | 0.028        | 348.79    | 556.79           | 820.31    | 4.71     | 6.42           | 7.61    | 0.73     | 0.82            | 0.90     | 324.36           | 514.71   | 223.93                | 334.03   |
| 3                                     | 54.95           | 55.07             | 34.51         | 70.03          | 0.028            | 0.028        | 375.37    | 552.88           | 803.89    | 4.95     | 7.00           | 8.03    | 0.82     | 0.91            | 0.99     | 448.18           | 609.09   | 297.63                | 382.55   |
| 4                                     | 54.95           | 54.95             | 34.50         | 75.01          | 0.037            | 0.036        | 585.72    | 727.26           | 877.40    | 6.82     | 9.06           | 10.06   | 0.95     | 1.09            | 1.21     | 513.80           | 667.00   | 338.45                | 471.59   |
| 5                                     | 55.07           | 54.95             | 34.50         | 75.02          | 0.037            | 0.037        | 546.62    | 735.08           | 959.50    | 7.57     | 9.60           | 10.35   | 1.06     | 1.20            | 1.29     | 576.21           | 685.24   | 405.97                | 511.57   |
| 6                                     | 54.95           | 55.07             | 34.50         | 75.03          | 0.037            | 0.037        | 441.06    | 737.42           | 1017.37   | 8.15     | 9.39           | 9.95    | 1.14     | 1.25            | 1.32     | 634.35           | 756.12   | 452.97                | 549.87   |
| 7                                     | 54.95           | 54.95             | 34.51         | 75.02          | 0.037            | 0.037        | 485.63    | 735.86           | 1038.48   | 8.60     | 9.59           | 10.34   | 1.18     | 1.29            | 1.37     | 675.55           | 759.47   | 490.05                | 568.71   |
| 8                                     | 54.95           | 55.07             | 34.52         | 74.99          | 0.037            | 0.037        | 513.00    | 742.12           | 950.12    | 8.62     | 9.93           | 10.62   | 1.20     | 1.30            | 1.39     | 686.46           | 734.68   | 515.53                | 577.79   |
| 9                                     | 54.95           | 54.95             | 34.50         | 70.03          | 0.019            | 0.019        | 208.82    | 373.81           | 586.50    | 5.15     | 6.53           | 7.60    | 1.06     | 1.11            | 1.14     | 718.65           | 743.30   | 542.09                | 600.83   |
| 10                                    | 55.07           | 54.95             | 34.52         | 70.03          | 0.019            | 0.019        | 260.43    | 372.25           | 509.09    | 6.29     | 7.10           | 7.85    | 1.02     | 1.06            | 1.09     | 716.06           | 759.85   | 565.43                | 614.03   |
| 11                                    | 54.95           | 54.95             | 39.50         | 70.02          | 0.030            | 0.030        | 412.91    | 598.23           | 846.12    | 7.59     | 8.71           | 9.22    | 1.02     | 1.14            | 1.21     | 711.02           | 791.36   | 578.33                | 649.97   |
| Section 753 Cooling Loop 35           |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                     | 4.95            | 0.62              | 85.48         | 1108.83        | 0.000            | 0.002        | -14.25    | 31.27            | 72.75     | -0.16    | -0.04          | 0.05    | -0.03    | -0.01           | 0.00     | 225.09           | 208.46   | 291.07                | 275.58   |
| Section 811 Durability Loop 36        |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                     | 30.07           | 2.97              | 1.64          | 74.09          | 0.745            | 0.753        | 14178.43  | 15021.37         | 15977.69  | 106.63   | 110.78         | 112.63  | 2.11     | 2.21            | 2.26     | 201.44           | 317.11   | 123.45                | 127.26   |
| 2                                     | 50.00           | 2.97              | 3.42          | 143.55         | 0.621            | 0.616        | 11887.32  | 12277.51         | 12612.19  | 85.73    | 89.87          | 93.13   | 1.92     | 2.09            | 2.17     | 200.53           | 443.00   | 133.06                | 172.43   |
| 3                                     | 60.02           | 2.97              | 4.83          | 408.33         | 0.528            | 0.526        | 10162.34  | 10479.03         | 11094.43  | 72.30    | 75.75          | 78.90   | 1.77     | 1.97            | 2.09     | 200.68           | 496.94   | 147.71                | 219.81   |
| 4                                     | 60.02           | 2.97              | 4.80          | 594.43         | 0.528            | 0.529        | 10312.48  | 10545.50         | 11101.46  | 71.27    | 72.49          | 74.30   | 1.75     | 1.92            | 2.03     | 200.76           | 510.90   | 164.34                | 242.47   |
| 5                                     | 70.05           | 2.97              | 8.07          | 648.85         | 0.373            | 0.372        | 7152.62   | 7423.96          | 7819.63   | 52.58    | 55.65          | 58.10   | 1.46     | 1.73            | 1.86     | 207.09           | 503.88   | 171.21                | 290.38   |
| Section 812 Speed Maintenance Loop 36 |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                     | 54.33           | 54.95             | 34.50         | 938.03         | 0.028            | 0.027        | 416.14    | 531.08           | 685.13    | 6.17     | 6.72           | 7.54    | 0.26     | 0.61            | 0.69     | 159.25           | 414.31   | 162.13                | 236.44   |
| 2                                     | 54.95           | 55.07             | 34.50         | 70.00          | 0.028            | 0.027        | 373.91    | 534.21           | 769.58    | 4.97     | 6.44           | 7.57    | 0.63     | 0.72            | 0.79     | 324.05           | 501.97   | 222.02                | 316.32   |
| 3                                     | 54.95           | 55.07             | 34.51         | 70.05          | 0.028            | 0.027        | 357.49    | 541.25           | 807.89    | 5.50     | 6.85           | 7.62    | 0.73     | 0.81            | 0.88     | 431.70           | 563.24   | 289.85                | 369.88   |
| 4                                     | 55.07           | 54.95             | 34.51         | 75.01          | 0.037            | 0.036        | 500.59    | 719.53           | 967.41    | 7.06     | 8.92           | 9.71    | 0.83     | 0.98            | 1.11     | 497.09           | 688.14   | 334.48                | 456.79   |
| 5                                     | 54.95           | 54.95             | 34.50         | 75.01          | 0.037            | 0.035        | 538.12    | 707.02           | 940.83    | 7.87     | 9.61           | 10.35   | 0.95     | 1.09            | 1.18     | 589.71           | 718.27   | 401.62                | 503.63   |
| 6                                     | 54.95           | 54.95             | 34.51         | 75.03          | 0.037            | 0.036        | 477.13    | 725.79           | 950.99    | 8.64     | 9.75           | 10.32   | 1.03     | 1.16            | 1.24     | 624.96           | 702.17   | 450.07                | 527.13   |
| 7                                     | 55.07           | 54.95             | 34.50         | 75.03          | 0.037            | 0.036        | 427.09    | 725.01           | 1067.50   | 8.80     | 9.44           | 10.20   | 1.09     | 1.21            | 1.28     | 654.87           | 737.65   | 480.51                | 553.61   |
| 8                                     | 54.95           | 54.95             | 34.50         | 75.02          | 0.037            | 0.036        | 519.36    | 717.97           | 968.98    | 8.94     | 9.61           | 10.28   | 1.11     | 1.23            | 1.31     | 680.35           | 718.65   | 509.13                | 566.81   |
| 9                                     | 55.07           | 54.95             | 34.52         | 70.00          | 0.019            | 0.018        | 246.46    | 361.40           | 479.48    | 5.62     | 6.75           | 7.90    | 1.01     | 1.04            | 1.07     | 696.99           | 725.75   | 533.69                | 580.77   |
| 10                                    | 54.95           | 54.95             | 34.50         | 70.01          | 0.019            | 0.018        | 235.51    | 355.93           | 488.86    | 6.46     | 7.06           | 7.58    | 0.95     | 0.99            | 1.02     | 695.08           | 750.47   | 550.55                | 593.81   |
| 11                                    | 55.07           | 54.95             | 39.51         | 70.00          | 0.030            | 0.029        | 368.44    | 582.69           | 826.66    | 7.79     | 8.44           | 9.15    | 0.27     | 1.06            | 1.13     | 700.34           | 796.71   | 562.53                | 626.93   |
| Section 813 Cooling Loop 36           |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                     | 4.95            | 0.62              | 88.01         | 1087.47        | 0.000            | 0.002        | -14.15    | 32.15            | 73.64     | -0.07    | 0.03           | 0.16    | -0.03    | -0.01           | 0.00     | 225.02           | 207.93   | 284.51                | 269.25   |

Test Request #:  
112305-3-1



Customer Ref:

| Stop #                                       | Brake Speed mph | Release Speed mph | Stop Time sec | Cycle Time sec | Ret. Set Point g | Ret. Level g | -----<br>Min<br>lb-ft | Torque<br>Avg<br>(Time)<br>lb-ft | -----<br>Max<br>lb-ft | -----<br>Min<br>psi | Pressure<br>Avg<br>(Time)<br>psi | -----<br>Max<br>psi | -----<br>Min<br>inch | Stroke<br>Avg<br>(Time)<br>inch | -----<br>Max<br>inch | Drum Temperature<br>Initial °F      Final °F |        | Lead Shoe Temperature<br>Initial °F      Final °F |        |
|----------------------------------------------|-----------------|-------------------|---------------|----------------|------------------|--------------|-----------------------|----------------------------------|-----------------------|---------------------|----------------------------------|---------------------|----------------------|---------------------------------|----------------------|----------------------------------------------|--------|---------------------------------------------------|--------|
| <b>Section 821 Durability Loop 37</b>        |                 |                   |               |                |                  |              |                       |                                  |                       |                     |                                  |                     |                      |                                 |                      |                                              |        |                                                   |        |
| 1                                            | 30.07           | 2.97              | 1.62          | 155.54         | 0.745            | 0.815        | 15007.29              | 16250.59                         | 17033.32              | 103.14              | 110.87                           | 114.76              | 2.12                 | 2.18                            | 2.20                 | 200.83                                       | 334.73 | 257.81                                            | 260.32 |
| 2                                            | 50.00           | 2.97              | 3.30          | 332.13         | 0.621            | 0.637        | 12302.54              | 12700.55                         | 13226.02              | 81.98               | 85.30                            | 91.28               | 1.93                 | 1.99                            | 2.03                 | 201.06                                       | 484.73 | 226.83                                            | 256.05 |
| 3                                            | 60.02           | 2.97              | 4.80          | 566.28         | 0.528            | 0.529        | 10160.78              | 10554.88                         | 10920.05              | 72.79               | 75.38                            | 77.79               | 1.76                 | 1.96                            | 2.07                 | 200.68                                       | 516.77 | 198.90                                            | 267.72 |
| 4                                            | 60.02           | 2.97              | 4.83          | 702.79         | 0.528            | 0.527        | 10300.75              | 10513.44                         | 10840.29              | 72.10               | 74.04                            | 75.84               | 1.77                 | 1.97                            | 2.08                 | 201.29                                       | 512.88 | 183.11                                            | 262.38 |
| 5                                            | 70.05           | 2.97              | 8.07          | 885.20         | 0.373            | 0.373        | 7167.48               | 7436.47                          | 7730.48               | 54.99               | 57.72                            | 60.03               | 1.53                 | 1.80                            | 1.93                 | 201.82                                       | 507.47 | 165.56                                            | 290.77 |
| <b>Section 822 Speed Maintenance Loop 37</b> |                 |                   |               |                |                  |              |                       |                                  |                       |                     |                                  |                     |                      |                                 |                      |                                              |        |                                                   |        |
| 1                                            | 54.33           | 54.95             | 34.51         | 976.99         | 0.028            | 0.027        | 413.79                | 532.65                           | 671.84                | 5.94                | 6.67                             | 7.68                | 0.60                 | 0.68                            | 0.76                 | 151.47                                       | 393.86 | 155.95                                            | 232.32 |
| 2                                            | 54.95           | 54.95             | 34.51         | 70.04          | 0.028            | 0.027        | 404.41                | 530.30                           | 696.86                | 4.59                | 6.45                             | 7.63                | 0.69                 | 0.78                            | 0.86                 | 305.97                                       | 496.79 | 214.85                                            | 311.21 |
| 3                                            | 55.07           | 54.95             | 34.51         | 70.03          | 0.028            | 0.027        | 403.63                | 528.74                           | 689.82                | 4.81                | 6.89                             | 7.79                | 0.78                 | 0.86                            | 0.94                 | 398.44                                       | 550.12 | 280.08                                            | 370.72 |
| 4                                            | 54.95           | 54.95             | 34.50         | 75.01          | 0.037            | 0.036        | 511.54                | 711.71                           | 976.01                | 6.76                | 8.48                             | 9.21                | 0.89                 | 1.01                            | 1.12                 | 454.67                                       | 559.81 | 327.31                                            | 465.03 |
| 5                                            | 55.07           | 54.95             | 34.51         | 75.00          | 0.037            | 0.036        | 483.39                | 719.53                           | 1004.95               | 7.70                | 9.20                             | 9.85                | 1.01                 | 1.15                            | 1.24                 | 499.23                                       | 596.73 | 399.95                                            | 513.25 |
| 6                                            | 54.95           | 55.07             | 34.50         | 75.03          | 0.037            | 0.036        | 488.86                | 710.93                           | 1006.51               | 8.45                | 9.64                             | 10.34               | 1.09                 | 1.21                            | 1.28                 | 558.66                                       | 640.07 | 449.23                                            | 534.23 |
| 7                                            | 55.07           | 54.95             | 34.50         | 75.01          | 0.037            | 0.036        | 484.17                | 718.75                           | 962.72                | 9.05                | 9.70                             | 10.43               | 1.14                 | 1.25                            | 1.33                 | 614.43                                       | 660.59 | 478.23                                            | 539.19 |
| 8                                            | 54.95           | 55.07             | 34.52         | 75.01          | 0.037            | 0.036        | 518.57                | 725.79                           | 884.53                | 9.07                | 9.70                             | 10.35               | 1.17                 | 1.28                            | 1.36                 | 636.18                                       | 693.63 | 495.09                                            | 561.69 |
| 9                                            | 54.95           | 54.95             | 34.50         | 70.02          | 0.019            | 0.019        | 209.70                | 369.22                           | 517.01                | 6.15                | 6.81                             | 7.79                | 1.05                 | 1.09                            | 1.11                 | 683.86                                       | 711.10 | 527.13                                            | 579.39 |
| 10                                           | 54.95           | 54.95             | 34.50         | 70.02          | 0.019            | 0.020        | 305.10                | 401.28                           | 470.09                | 7.13                | 7.70                             | 8.05                | 1.00                 | 1.06                            | 1.09                 | 689.51                                       | 730.86 | 546.59                                            | 598.47 |
| 11                                           | 54.95           | 54.95             | 39.51         | 70.00          | 0.030            | 0.029        | 376.26                | 581.91                           | 804.77                | 7.88                | 8.53                             | 9.18                | 1.01                 | 1.13                            | 1.19                 | 688.67                                       | 749.86 | 564.75                                            | 636.77 |
| <b>Section 823 Cooling Loop 37</b>           |                 |                   |               |                |                  |              |                       |                                  |                       |                     |                                  |                     |                      |                                 |                      |                                              |        |                                                   |        |
| 1                                            | 4.95            | 0.62              | 86.85         | 1095.21        | 0.000            | 0.002        | -14.15                | 34.51                            | 73.64                 | -0.09               | 0.01                             | 0.13                | -0.03                | -0.01                           | 0.00                 | 225.32                                       | 207.77 | 285.73                                            | 271.31 |
| <b>Section 831 Durability Loop 38</b>        |                 |                   |               |                |                  |              |                       |                                  |                       |                     |                                  |                     |                      |                                 |                      |                                              |        |                                                   |        |
| 1                                            | 29.95           | 2.97              | 1.60          | 157.45         | 0.745            | 0.808        | 14568.62              | 16109.06                         | 17054.44              | 104.43              | 112.01                           | 115.78              | 2.15                 | 2.22                            | 2.24                 | 201.59                                       | 340.15 | 259.79                                            | 261.93 |
| 2                                            | 50.00           | 2.97              | 3.31          | 362.72         | 0.621            | 0.634        | 12311.14              | 12640.34                         | 13057.12              | 83.23               | 85.93                            | 90.57               | 1.96                 | 2.03                            | 2.08                 | 201.06                                       | 492.74 | 224.92                                            | 255.21 |
| 3                                            | 60.02           | 2.97              | 4.82          | 526.93         | 0.528            | 0.529        | 10145.92              | 10541.59                         | 11018.58              | 72.38               | 75.43                            | 78.11               | 1.81                 | 1.99                            | 2.11                 | 200.68                                       | 505.03 | 200.58                                            | 272.23 |
| 4                                            | 60.02           | 2.97              | 4.79          | 704.45         | 0.528            | 0.528        | 10340.63              | 10526.73                         | 10962.28              | 72.57               | 73.91                            | 75.40               | 1.83                 | 2.01                            | 2.12                 | 200.45                                       | 521.66 | 184.48                                            | 260.70 |
| 5                                            | 69.92           | 2.97              | 8.01          | 903.68         | 0.373            | 0.374        | 7188.59               | 7456.02                          | 7850.12               | 55.43               | 57.61                            | 59.84               | 1.58                 | 1.84                            | 1.96                 | 200.68                                       | 490.30 | 165.94                                            | 296.87 |
| <b>Section 832 Speed Maintenance Loop 38</b> |                 |                   |               |                |                  |              |                       |                                  |                       |                     |                                  |                     |                      |                                 |                      |                                              |        |                                                   |        |
| 1                                            | 54.33           | 54.95             | 34.51         | 966.25         | 0.028            | 0.027        | 436.47                | 537.34                           | 654.63                | 6.39                | 6.94                             | 7.83                | 0.63                 | 0.71                            | 0.79                 | 153.22                                       | 404.01 | 157.17                                            | 229.04 |
| 2                                            | 54.95           | 55.07             | 34.51         | 70.00          | 0.028            | 0.026        | 401.28                | 523.26                           | 683.56                | 4.77                | 6.48                             | 7.77                | 0.72                 | 0.80                            | 0.88                 | 310.24                                       | 507.09 | 214.01                                            | 303.58 |
| 3                                            | 54.95           | 54.95             | 34.51         | 70.01          | 0.028            | 0.026        | 396.59                | 522.48                           | 681.22                | 5.21                | 6.73                             | 7.82                | 0.82                 | 0.89                            | 0.96                 | 412.02                                       | 554.77 | 275.58                                            | 366.83 |
| 4                                            | 55.07           | 54.95             | 34.50         | 75.03          | 0.037            | 0.036        | 546.72                | 724.23                           | 929.10                | 7.26                | 8.76                             | 9.35                | 0.93                 | 1.06                            | 1.16                 | 470.23                                       | 589.26 | 324.41                                            | 459.15 |
| 5                                            | 54.95           | 55.07             | 34.52         | 74.99          | 0.037            | 0.036        | 509.19                | 723.44                           | 945.52                | 8.31                | 9.45                             | 10.20               | 1.05                 | 1.19                            | 1.27                 | 510.82                                       | 604.29 | 395.67                                            | 510.19 |
| 6                                            | 55.07           | 54.95             | 34.51         | 75.00          | 0.037            | 0.036        | 509.19                | 714.06                           | 965.07                | 8.97                | 9.85                             | 10.60               | 1.12                 | 1.24                            | 1.31                 | 558.05                                       | 634.19 | 447.63                                            | 539.49 |
| 7                                            | 54.95           | 55.07             | 34.52         | 75.02          | 0.037            | 0.036        | 539.69                | 721.10                           | 934.57                | 9.22                | 10.07                            | 10.79               | 1.18                 | 1.28                            | 1.36                 | 606.58                                       | 659.22 | 479.83                                            | 539.49 |
| 8                                            | 55.07           | 54.95             | 34.51         | 75.00          | 0.037            | 0.036        | 523.26                | 725.01                           | 904.07                | 9.20                | 10.06                            | 10.57               | 1.19                 | 1.29                            | 1.37                 | 632.97                                       | 687.07 | 495.54                                            | 564.13 |
| 9                                            | 54.95           | 55.07             | 34.50         | 70.03          | 0.019            | 0.019        | 215.96                | 369.22                           | 520.92                | 6.56                | 7.16                             | 7.79                | 0.26                 | 1.10                            | 1.12                 | 681.65                                       | 715.30 | 530.95                                            | 591.37 |
| 10                                           | 55.07           | 54.95             | 34.50         | 70.01          | 0.019            | 0.017        | 247.24                | 343.42                           | 481.82                | 5.66                | 6.88                             | 8.31                | 1.01                 | 1.04                            | 1.09                 | 691.95                                       | 729.95 | 555.51                                            | 599.15 |
| 11                                           | 54.95           | 54.95             | 39.51         | 70.04          | 0.030            | 0.029        | 370.78                | 580.35                           | 805.55                | 8.03                | 8.71                             | 9.47                | 1.01                 | 1.15                            | 1.21                 | 683.25                                       | 746.58 | 564.59                                            | 640.35 |
| <b>Section 833 Cooling Loop 38</b>           |                 |                   |               |                |                  |              |                       |                                  |                       |                     |                                  |                     |                      |                                 |                      |                                              |        |                                                   |        |
| 1                                            | 4.95            | 0.62              | 85.16         | 1101.70        | 0.000            | 0.002        | -1.59                 | 35.29                            | 73.64                 | -0.07               | 0.03                             | 0.13                | -0.03                | -0.01                           | 0.00                 | 225.40                                       | 208.92 | 284.59                                            | 270.09 |

Test Request #:  
112305-3-1



Customer Ref:

| Stop #                                       | Brake Speed mph | Release Speed mph | Stop Time sec | Cycle Time sec | Ret. Set Point g | Ret. Level g | Min lb-ft | Torque Avg (Time) lb-ft | Max lb-ft | Min psi | Pressure Avg (Time) psi | Max psi | Min inch | Stroke Avg (Time) inch | Max inch | Drum Temperature Initial °F | Drum Temperature Final °F | Lead Shoe Temperature Initial °F | Lead Shoe Temperature Final °F |
|----------------------------------------------|-----------------|-------------------|---------------|----------------|------------------|--------------|-----------|-------------------------|-----------|---------|-------------------------|---------|----------|------------------------|----------|-----------------------------|---------------------------|----------------------------------|--------------------------------|
| <b>Section 841 Durability Loop 39</b>        |                 |                   |               |                |                  |              |           |                         |           |         |                         |         |          |                        |          |                             |                           |                                  |                                |
| 1                                            | 29.95           | 2.97              | 1.63          | 191.03         | 0.745            | 0.803        | 14528.74  | 16016.01                | 17069.29  | 104.25  | 110.88                  | 113.81  | 2.13     | 2.21                   | 2.23     | 200.53                      | 339.23                    | 254.14                           | 256.89                         |
| 2                                            | 50.00           | 2.97              | 3.29          | 367.15         | 0.621            | 0.635        | 12257.18  | 12660.67                | 13226.80  | 82.48   | 85.01                   | 90.26   | 1.98     | 2.05                   | 2.10     | 200.53                      | 486.41                    | 220.19                           | 251.63                         |
| 3                                            | 59.90           | 2.97              | 4.78          | 667.76         | 0.528            | 0.529        | 10157.65  | 10545.50                | 10979.48  | 72.22   | 75.11                   | 77.53   | 1.82     | 2.01                   | 2.12     | 200.45                      | 487.40                    | 187.23                           | 263.99                         |
| 4                                            | 60.02           | 2.97              | 4.80          | 892.21         | 0.528            | 0.528        | 10275.73  | 10532.20                | 11053.76  | 73.29   | 75.25                   | 76.98   | 1.83     | 2.01                   | 2.13     | 200.76                      | 506.02                    | 167.09                           | 252.77                         |
| 5                                            | 69.92           | 2.97              | 8.00          | 829.01         | 0.373            | 0.373        | 7093.98   | 7432.56                 | 7830.57   | 54.34   | 57.88                   | 60.98   | 1.59     | 1.87                   | 1.99     | 200.60                      | 493.28                    | 162.51                           | 297.78                         |
| <b>Section 842 Speed Maintenance Loop 39</b> |                 |                   |               |                |                  |              |           |                         |           |         |                         |         |          |                        |          |                             |                           |                                  |                                |
| 1                                            | 54.33           | 55.07             | 34.50         | 1009.10        | 0.028            | 0.026        | 432.56    | 521.70                  | 660.11    | 6.41    | 6.83                    | 7.79    | 0.64     | 0.72                   | 0.80     | 151.93                      | 380.36                    | 155.11                           | 227.67                         |
| 2                                            | 55.07           | 54.95             | 34.51         | 70.03          | 0.028            | 0.026        | 392.68    | 522.48                  | 732.05    | 5.28    | 6.53                    | 7.71    | 0.75     | 0.83                   | 0.91     | 302.00                      | 480.92                    | 210.88                           | 304.65                         |
| 3                                            | 54.95           | 55.07             | 34.50         | 70.00          | 0.028            | 0.026        | 408.32    | 518.57                  | 673.40    | 5.94    | 7.12                    | 7.87    | 0.84     | 0.91                   | 0.98     | 397.68                      | 541.49                    | 273.37                           | 364.93                         |
| 4                                            | 55.07           | 54.95             | 34.52         | 75.01          | 0.037            | 0.036        | 572.53    | 717.97                  | 910.33    | 7.99    | 8.95                    | 9.48    | 0.95     | 1.08                   | 1.19     | 454.14                      | 575.45                    | 319.91                           | 456.79                         |
| 5                                            | 54.95           | 55.07             | 34.50         | 75.02          | 0.037            | 0.036        | 491.21    | 722.66                  | 976.01    | 7.94    | 9.57                    | 10.32   | 1.06     | 1.20                   | 1.29     | 501.82                      | 593.91                    | 391.71                           | 502.11                         |
| 6                                            | 54.95           | 55.07             | 34.51         | 75.04          | 0.037            | 0.036        | 490.42    | 718.75                  | 981.49    | 8.41    | 9.67                    | 10.47   | 1.16     | 1.27                   | 1.34     | 550.65                      | 619.85                    | 440.61                           | 540.03                         |
| 7                                            | 55.07           | 54.95             | 34.51         | 75.03          | 0.037            | 0.036        | 531.08    | 715.62                  | 990.09    | 8.92    | 9.84                    | 10.52   | 1.20     | 1.30                   | 1.38     | 592.00                      | 647.85                    | 478.23                           | 545.75                         |
| 8                                            | 54.95           | 55.07             | 34.51         | 75.00          | 0.037            | 0.036        | 506.84    | 724.23                  | 910.33    | 8.98    | 9.87                    | 10.62   | 1.21     | 1.32                   | 1.39     | 622.90                      | 674.56                    | 496.99                           | 568.25                         |
| 9                                            | 55.07           | 54.95             | 34.53         | 70.01          | 0.019            | 0.018        | 246.46    | 366.88                  | 476.35    | 6.50    | 7.08                    | 7.56    | 1.09     | 1.12                   | 1.14     | 659.91                      | 697.44                    | 531.63                           | 595.03                         |
| 10                                           | 54.95           | 55.07             | 34.50         | 70.03          | 0.019            | 0.018        | 276.95    | 362.97                  | 464.62    | 7.20    | 7.58                    | 7.95    | 1.03     | 1.07                   | 1.09     | 672.11                      | 720.87                    | 556.73                           | 607.17                         |
| 11                                           | 55.07           | 54.95             | 39.50         | 70.01          | 0.030            | 0.029        | 398.94    | 577.22                  | 796.16    | 8.06    | 8.86                    | 9.49    | 1.04     | 1.17                   | 1.24     | 675.09                      | 737.65                    | 568.71                           | 648.21                         |
| <b>Section 843 Cooling Loop 39</b>           |                 |                   |               |                |                  |              |           |                         |           |         |                         |         |          |                        |          |                             |                           |                                  |                                |
| 1                                            | 5.07            | 0.62              | 89.79         | 1095.34        | 0.000            | 0.002        | -9.44     | 32.94                   | 71.30     | -0.03   | 0.07                    | 0.18    | -0.01    | 0.01                   | 0.02     | 225.32                      | 208.31                    | 285.42                           | 270.17                         |
| <b>Section 851 Durability Loop 40</b>        |                 |                   |               |                |                  |              |           |                         |           |         |                         |         |          |                        |          |                             |                           |                                  |                                |
| 1                                            | 29.95           | 2.97              | 1.62          | 174.06         | 0.745            | 0.807        | 14500.59  | 16083.26                | 17026.29  | 104.19  | 111.95                  | 115.73  | 2.19     | 2.24                   | 2.27     | 200.45                      | 341.60                    | 257.42                           | 259.87                         |
| 2                                            | 50.00           | 2.97              | 3.32          | 329.73         | 0.621            | 0.635        | 12297.06  | 12663.01                | 13115.76  | 82.48   | 85.49                   | 90.45   | 1.97     | 2.07                   | 2.12     | 200.76                      | 486.79                    | 228.05                           | 262.38                         |
| 3                                            | 60.02           | 2.97              | 4.80          | 564.15         | 0.528            | 0.530        | 10127.15  | 10567.39                | 10993.55  | 73.24   | 75.61                   | 77.99   | 1.83     | 2.02                   | 2.12     | 200.60                      | 479.69                    | 199.36                           | 274.21                         |
| 4                                            | 60.02           | 2.97              | 4.79          | 691.95         | 0.528            | 0.529        | 10305.44  | 10539.24                | 11023.27  | 72.66   | 74.44                   | 75.67   | 1.83     | 2.02                   | 2.12     | 200.45                      | 514.03                    | 184.94                           | 268.79                         |
| 5                                            | 69.92           | 2.97              | 8.01          | 871.66         | 0.373            | 0.373        | 7147.93   | 7445.07                 | 7836.05   | 54.61   | 57.49                   | 60.15   | 1.59     | 1.86                   | 1.99     | 200.76                      | 493.35                    | 168.31                           | 304.42                         |
| <b>Section 852 Speed Maintenance Loop 40</b> |                 |                   |               |                |                  |              |           |                         |           |         |                         |         |          |                        |          |                             |                           |                                  |                                |
| 1                                            | 54.33           | 54.95             | 34.50         | 982.65         | 0.028            | 0.027        | 413.79    | 535.78                  | 678.09    | 5.98    | 6.87                    | 7.84    | 0.64     | 0.72                   | 0.78     | 152.61                      | 379.29                    | 158.01                           | 233.09                         |
| 2                                            | 54.95           | 55.07             | 34.51         | 69.99          | 0.028            | 0.026        | 406.75    | 524.05                  | 699.20    | 5.35    | 6.50                    | 7.71    | 0.75     | 0.82                   | 0.90     | 303.37                      | 467.87                    | 214.01                           | 304.27                         |
| 3                                            | 54.95           | 54.95             | 34.51         | 70.04          | 0.028            | 0.026        | 413.01    | 524.83                  | 676.53    | 5.64    | 6.90                    | 7.77    | 0.84     | 0.90                   | 0.97     | 394.32                      | 518.15                    | 273.06                           | 367.67                         |
| 4                                            | 55.07           | 54.95             | 34.51         | 75.03          | 0.037            | 0.036        | 572.53    | 721.88                  | 903.29    | 7.88    | 8.76                    | 9.41    | 0.26     | 1.08                   | 1.92     | 450.40                      | 555.53                    | 321.67                           | 457.09                         |
| 5                                            | 54.95           | 55.07             | 34.49         | 75.01          | 0.037            | 0.036        | 542.03    | 723.44                  | 957.25    | 7.86    | 9.43                    | 10.09   | 1.05     | 1.20                   | 1.30     | 501.82                      | 578.80                    | 392.93                           | 499.89                         |
| 6                                            | 54.95           | 54.95             | 34.52         | 75.03          | 0.037            | 0.036        | 526.39    | 721.10                  | 950.99    | 8.80    | 9.78                    | 10.41   | 1.14     | 1.27                   | 1.34     | 555.69                      | 622.90                    | 438.70                           | 523.77                         |
| 7                                            | 55.07           | 54.95             | 34.51         | 75.01          | 0.037            | 0.037        | 513.88    | 728.14                  | 927.53    | 9.14    | 9.91                    | 10.57   | 1.19     | 1.30                   | 1.38     | 610.31                      | 658.84                    | 468.31                           | 538.19                         |
| 8                                            | 54.95           | 54.95             | 34.49         | 75.01          | 0.037            | 0.036        | 542.03    | 719.53                  | 896.25    | 8.84    | 9.46                    | 10.28   | 1.09     | 1.31                   | 1.51     | 638.85                      | 692.94                    | 491.65                           | 565.43                         |
| 9                                            | 55.07           | 54.95             | 34.51         | 70.01          | 0.019            | 0.019        | 237.85    | 372.35                  | 485.73    | 6.41    | 7.04                    | 7.62    | 1.09     | 1.12                   | 1.14     | 682.80                      | 713.01                    | 528.50                           | 584.05                         |
| 10                                           | 54.95           | 55.07             | 34.52         | 70.02          | 0.019            | 0.017        | 253.49    | 347.33                  | 474.78    | 5.76    | 6.81                    | 8.09    | 1.03     | 1.07                   | 1.09     | 693.02                      | 733.99                    | 548.95                           | 603.27                         |
| 11                                           | 55.07           | 54.95             | 39.51         | 70.02          | 0.030            | 0.029        | 371.57    | 579.57                  | 849.34    | 7.97    | 8.67                    | 9.45    | 1.03     | 1.16                   | 1.23     | 686.69                      | 764.81                    | 565.13                           | 643.41                         |
| <b>Section 853 Cooling Loop 40</b>           |                 |                   |               |                |                  |              |           |                         |           |         |                         |         |          |                        |          |                             |                           |                                  |                                |
| 1                                            | 4.95            | 0.62              | 88.05         | 1096.41        | 0.000            | 0.002        | -2.38     | 33.72                   | 72.86     | -0.11   | 0.06                    | 0.17    | -0.02    | 0.00                   | 0.01     | 225.02                      | 208.54                    | 286.11                           | 270.85                         |

Test Request #:  
112305-3-1



Customer Ref:

| Stop #                                       | Brake Speed mph | Release Speed mph | Stop Time sec | Cycle Time sec | Ret. Set Point g | Ret. Level g | Min lb-ft | Torque Avg (Time) lb-ft | Max lb-ft | Min psi | Pressure Avg (Time) psi | Max psi | Min inch | Stroke Avg (Time) inch | Max inch | Drum Temperature Initial °F | Drum Temperature Final °F | Lead Shoe Temperature Initial °F | Lead Shoe Temperature Final °F |
|----------------------------------------------|-----------------|-------------------|---------------|----------------|------------------|--------------|-----------|-------------------------|-----------|---------|-------------------------|---------|----------|------------------------|----------|-----------------------------|---------------------------|----------------------------------|--------------------------------|
| <b>Section 911 Durability Loop 41</b>        |                 |                   |               |                |                  |              |           |                         |           |         |                         |         |          |                        |          |                             |                           |                                  |                                |
| 1                                            | 29.95           | 2.97              | 1.69          | 83.73          | 0.745            | 0.729        | 13547.40  | 14538.13                | 15382.63  | 110.89  | 118.78                  | 121.75  | 2.32     | 2.43                   | 2.49     | 199.92                      | 312.53                    | 121.46                           | 122.15                         |
| 2                                            | 50.00           | 2.97              | 3.45          | 137.75         | 0.621            | 0.613        | 11874.81  | 12214.96                | 12618.44  | 91.14   | 96.20                   | 101.96  | 2.16     | 2.32                   | 2.42     | 200.53                      | 436.89                    | 132.07                           | 160.22                         |
| 3                                            | 60.02           | 2.97              | 4.87          | 434.70         | 0.528            | 0.523        | 10038.01  | 10424.30                | 11091.30  | 74.91   | 79.52                   | 84.74   | 1.98     | 2.19                   | 2.32     | 201.67                      | 495.26                    | 144.43                           | 195.47                         |
| 4                                            | 60.02           | 2.97              | 4.83          | 659.70         | 0.528            | 0.525        | 10192.84  | 10471.99                | 11031.09  | 73.76   | 76.08                   | 80.22   | 1.95     | 2.13                   | 2.26     | 200.68                      | 513.42                    | 159.00                           | 207.07                         |
| 5                                            | 69.92           | 2.97              | 8.06          | 819.59         | 0.373            | 0.372        | 7073.65   | 7416.92                 | 7868.11   | 54.16   | 57.50                   | 59.80   | 1.67     | 1.93                   | 2.06     | 200.68                      | 511.97                    | 159.76                           | 236.44                         |
| <b>Section 912 Speed Maintenance Loop 41</b> |                 |                   |               |                |                  |              |           |                         |           |         |                         |         |          |                        |          |                             |                           |                                  |                                |
| 1                                            | 54.33           | 55.07             | 34.51         | 989.67         | 0.028            | 0.027        | 417.70    | 536.56                  | 680.44    | 5.86    | 6.63                    | 7.86    | 0.70     | 0.78                   | 0.87     | 152.00                      | 381.35                    | 156.48                           | 207.14                         |
| 2                                            | 54.95           | 55.07             | 34.51         | 70.03          | 0.028            | 0.027        | 355.15    | 528.74                  | 706.24    | 4.57    | 6.34                    | 7.70    | 0.68     | 0.88                   | 0.96     | 305.21                      | 472.98                    | 208.44                           | 270.85                         |
| 3                                            | 55.07           | 54.95             | 34.51         | 70.02          | 0.028            | 0.027        | 397.37    | 529.52                  | 701.55    | 4.57    | 6.81                    | 7.81    | 0.88     | 0.97                   | 1.05     | 391.27                      | 530.97                    | 265.51                           | 326.62                         |
| 4                                            | 54.95           | 55.07             | 34.50         | 75.01          | 0.037            | 0.036        | 533.43    | 708.59                  | 912.68    | 6.74    | 8.51                    | 9.06    | 1.01     | 1.12                   | 1.23     | 443.53                      | 566.90                    | 313.04                           | 404.90                         |
| 5                                            | 54.95           | 54.95             | 34.50         | 75.02          | 0.037            | 0.036        | 516.23    | 720.32                  | 952.55    | 7.04    | 9.18                    | 9.91    | 1.12     | 1.26                   | 1.35     | 493.35                      | 597.80                    | 381.86                           | 453.12                         |
| 6                                            | 54.95           | 55.07             | 34.51         | 74.99          | 0.037            | 0.036        | 540.47    | 713.28                  | 962.72    | 7.77    | 9.61                    | 10.26   | 1.21     | 1.32                   | 1.40     | 553.02                      | 626.72                    | 429.09                           | 487.99                         |
| 7                                            | 54.95           | 54.95             | 34.51         | 75.02          | 0.037            | 0.036        | 530.30    | 711.71                  | 936.92    | 8.54    | 9.61                    | 10.30   | 1.24     | 1.35                   | 1.43     | 600.17                      | 647.70                    | 462.43                           | 504.01                         |
| 8                                            | 55.07           | 54.95             | 34.50         | 75.03          | 0.037            | 0.036        | 506.84    | 721.88                  | 897.04    | 8.88    | 9.73                    | 10.62   | 1.26     | 1.36                   | 1.45     | 624.66                      | 676.16                    | 482.35                           | 525.07                         |
| 9                                            | 54.95           | 54.95             | 34.50         | 70.02          | 0.019            | 0.018        | 234.73    | 355.93                  | 485.73    | 5.88    | 6.58                    | 7.61    | 1.13     | 1.16                   | 1.18     | 673.26                      | 702.17                    | 513.25                           | 554.83                         |
| 10                                           | 55.07           | 54.95             | 34.50         | 70.03          | 0.019            | 0.018        | 287.12    | 368.44                  | 481.82    | 6.69    | 7.30                    | 7.86    | 1.07     | 1.12                   | 1.14     | 677.91                      | 719.26                    | 541.25                           | 573.37                         |
| 11                                           | 54.95           | 55.07             | 39.50         | 70.03          | 0.030            | 0.029        | 401.28    | 583.47                  | 763.32    | 8.03    | 8.74                    | 9.45    | 1.08     | 1.22                   | 1.28     | 675.09                      | 731.93                    | 558.11                           | 608.69                         |
| <b>Section 913 Cooling Loop 41</b>           |                 |                   |               |                |                  |              |           |                         |           |         |                         |         |          |                        |          |                             |                           |                                  |                                |
| 1                                            | 4.95            | 0.62              | 92.72         | 1123.31        | 0.000            | 0.001        | -13.37    | 28.23                   | 63.48     | -0.06   | 0.05                    | 0.16    | -0.03    | -0.01                  | 0.00     | 225.55                      | 208.00                    | 291.45                           | 276.27                         |
| <b>Section 921 Durability Loop 42</b>        |                 |                   |               |                |                  |              |           |                         |           |         |                         |         |          |                        |          |                             |                           |                                  |                                |
| 1                                            | 29.95           | 2.97              | 1.60          | 164.66         | 0.745            | 0.812        | 14736.74  | 16184.91                | 16988.75  | 100.51  | 108.85                  | 113.12  | 2.18     | 2.24                   | 2.26     | 200.68                      | 341.06                    | 265.51                           | 265.51                         |
| 2                                            | 50.00           | 2.97              | 3.31          | 411.65         | 0.621            | 0.632        | 12264.22  | 12594.98                | 13025.06  | 83.41   | 85.87                   | 89.59   | 1.98     | 2.08                   | 2.14     | 200.76                      | 485.95                    | 223.93                           | 232.55                         |
| 3                                            | 60.02           | 2.97              | 4.80          | 569.51         | 0.528            | 0.527        | 10045.05  | 10498.58                | 10944.29  | 72.84   | 76.80                   | 79.85   | 1.86     | 2.06                   | 2.18     | 200.45                      | 480.08                    | 198.14                           | 227.36                         |
| 4                                            | 60.02           | 2.97              | 4.81          | 824.78         | 0.528            | 0.526        | 10282.76  | 10489.98                | 10817.62  | 73.37   | 76.25                   | 79.06   | 1.88     | 2.08                   | 2.19     | 200.98                      | 517.39                    | 175.86                           | 211.57                         |
| 5                                            | 70.05           | 2.97              | 8.04          | 880.14         | 0.373            | 0.373        | 7054.10   | 7430.21                 | 7791.48   | 54.49   | 57.91                   | 60.82   | 1.63     | 1.92                   | 2.04     | 200.45                      | 480.31                    | 163.81                           | 239.57                         |
| <b>Section 922 Speed Maintenance Loop 42</b> |                 |                   |               |                |                  |              |           |                         |           |         |                         |         |          |                        |          |                             |                           |                                  |                                |
| 1                                            | 54.33           | 55.07             | 34.51         | 1001.78        | 0.028            | 0.027        | 411.45    | 535.78                  | 681.22    | 5.58    | 6.55                    | 7.77    | 0.68     | 0.76                   | 0.85     | 151.77                      | 399.66                    | 157.63                           | 207.60                         |
| 2                                            | 55.07           | 54.95             | 34.51         | 70.00          | 0.028            | 0.027        | 366.88    | 531.08                  | 717.97    | 4.49    | 6.31                    | 7.59    | 0.77     | 0.87                   | 0.95     | 312.38                      | 470.92                    | 210.35                           | 271.69                         |
| 3                                            | 54.95           | 55.07             | 34.49         | 70.03          | 0.028            | 0.026        | 401.28    | 517.79                  | 704.68    | 4.62    | 6.52                    | 7.75    | 0.87     | 0.95                   | 1.02     | 397.14                      | 509.22                    | 268.11                           | 325.63                         |
| 4                                            | 54.95           | 54.95             | 34.51         | 75.03          | 0.037            | 0.036        | 540.47    | 710.15                  | 875.92    | 6.35    | 8.50                    | 9.32    | 0.98     | 1.11                   | 1.22     | 440.78                      | 549.43                    | 312.89                           | 401.62                         |
| 5                                            | 54.95           | 54.95             | 34.51         | 75.01          | 0.037            | 0.036        | 517.01    | 717.19                  | 896.25    | 6.85    | 9.20                    | 9.88    | 1.10     | 1.23                   | 1.33     | 484.35                      | 585.59                    | 379.80                           | 450.45                         |
| 6                                            | 54.95           | 55.07             | 34.51         | 75.02          | 0.037            | 0.036        | 565.49    | 712.50                  | 922.84    | 8.17    | 9.65                    | 10.45   | 1.18     | 1.30                   | 1.51     | 543.10                      | 614.51                    | 426.19                           | 486.47                         |
| 7                                            | 55.07           | 54.95             | 34.50         | 75.01          | 0.037            | 0.036        | 540.47    | 721.10                  | 894.69    | 8.54    | 9.65                    | 10.34   | 1.21     | 1.33                   | 1.41     | 587.50                      | 640.83                    | 459.69                           | 504.01                         |
| 8                                            | 54.95           | 55.07             | 34.51         | 75.01          | 0.037            | 0.036        | 526.39    | 721.88                  | 877.49    | 8.94    | 9.52                    | 10.32   | 1.24     | 1.33                   | 1.41     | 618.25                      | 660.97                    | 482.19                           | 528.50                         |
| 9                                            | 55.07           | 54.95             | 34.51         | 70.02          | 0.019            | 0.018        | 237.85    | 360.62                  | 488.08    | 4.92    | 6.39                    | 7.62    | 1.09     | 1.13                   | 1.16     | 656.09                      | 695.16                    | 515.53                           | 559.79                         |
| 10                                           | 54.95           | 55.07             | 34.50         | 70.02          | 0.019            | 0.017        | 249.58    | 340.29                  | 472.44    | 6.17    | 6.74                    | 7.62    | 1.05     | 1.08                   | 1.12     | 671.43                      | 710.87                    | 544.53                           | 571.69                         |
| 11                                           | 54.95           | 54.95             | 39.51         | 70.01          | 0.030            | 0.029        | 387.21    | 584.26                  | 789.13    | 7.99    | 8.60                    | 9.30    | 1.05     | 1.17                   | 1.23     | 667.76                      | 727.20                    | 555.51                           | 606.33                         |
| <b>Section 923 Cooling Loop 42</b>           |                 |                   |               |                |                  |              |           |                         |           |         |                         |         |          |                        |          |                             |                           |                                  |                                |
| 1                                            | 4.95            | 0.62              | 89.94         | 1127.72        | 0.000            | 0.002        | -11.01    | 31.37                   | 72.86     | -0.06   | 0.05                    | 0.19    | -0.03    | -0.01                  | 0.01     | 224.94                      | 208.16                    | 289.16                           | 274.74                         |

Test Request #:  
112305-3-1



Customer Ref:

| Stop #                                | Brake Speed mph | Release Speed mph | Stop Time sec | Cycle Time sec | Ret. Set Point g | Ret. Level g | Torque    |                  |           | Pressure |                |         | Stroke   |                 |          | Drum Temperature |          | Lead Shoe Temperature |          |
|---------------------------------------|-----------------|-------------------|---------------|----------------|------------------|--------------|-----------|------------------|-----------|----------|----------------|---------|----------|-----------------|----------|------------------|----------|-----------------------|----------|
|                                       |                 |                   |               |                |                  |              | Min lb-ft | Avg (Time) lb-ft | Max lb-ft | Min psi  | Avg (Time) psi | Max psi | Min inch | Avg (Time) inch | Max inch | Initial °F       | Final °F | Initial °F            | Final °F |
| Section 931 Durability Loop 43        |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                     | 30.07           | 2.97              | 1.60          | 167.13         | 0.745            | 0.809        | 14664.80  | 16118.44         | 16968.42  | 101.54   | 109.74         | 113.89  | 2.14     | 2.20            | 2.23     | 200.22           | 340.30   | 262.76                | 262.76   |
| 2                                     | 50.00           | 2.97              | 3.32          | 372.01         | 0.621            | 0.633        | 12224.34  | 12621.57         | 13102.47  | 83.27    | 85.70          | 90.24   | 1.95     | 2.04            | 2.10     | 200.07           | 482.37   | 227.36                | 235.98   |
| 3                                     | 60.02           | 2.97              | 4.82          | 690.22         | 0.528            | 0.528        | 10134.97  | 10517.35         | 10974.00  | 73.33    | 76.39          | 78.84   | 1.81     | 2.01            | 2.13     | 200.76           | 472.98   | 189.75                | 221.56   |
| 4                                     | 60.02           | 2.97              | 4.81          | 832.47         | 0.528            | 0.526        | 10272.60  | 10491.54         | 10826.22  | 74.02    | 76.70          | 79.39   | 1.82     | 2.03            | 2.15     | 201.29           | 503.12   | 172.81                | 209.20   |
| 5                                     | 70.05           | 2.97              | 8.02          | 766.09         | 0.373            | 0.373        | 7068.17   | 7437.25          | 7835.26   | 54.70    | 57.07          | 59.73   | 1.58     | 1.85            | 1.97     | 200.45           | 468.02   | 168.31                | 242.85   |
| Section 932 Speed Maintenance Loop 43 |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                     | 54.33           | 54.95             | 34.51         | 1000.06        | 0.028            | 0.027        | 411.45    | 533.43           | 706.24    | 5.21     | 6.31           | 7.68    | 0.62     | 0.70            | 0.79     | 152.00           | 404.01   | 160.07                | 215.38   |
| 2                                     | 54.95           | 54.95             | 34.50         | 69.99          | 0.028            | 0.027        | 391.90    | 533.43           | 756.29    | 4.57     | 6.18           | 7.58    | 0.73     | 0.81            | 0.89     | 318.48           | 471.23   | 216.07                | 283.82   |
| 3                                     | 55.07           | 55.07             | 34.51         | 70.01          | 0.028            | 0.026        | 395.03    | 522.48           | 706.24    | 4.52     | 6.57           | 7.67    | 0.81     | 0.90            | 0.97     | 404.92           | 512.04   | 277.18                | 333.64   |
| 4                                     | 54.95           | 55.07             | 34.51         | 75.03          | 0.037            | 0.035        | 551.42    | 703.89           | 865.76    | 6.32     | 8.56           | 9.52    | 0.92     | 1.05            | 1.18     | 446.51           | 543.94   | 318.38                | 405.13   |
| 5                                     | 55.07           | 54.95             | 34.50         | 74.99          | 0.037            | 0.036        | 516.23    | 719.53           | 890.00    | 6.98     | 9.14           | 9.83    | 1.03     | 1.18            | 1.29     | 489.46           | 571.33   | 382.09                | 451.75   |
| 6                                     | 54.95           | 54.95             | 34.50         | 75.02          | 0.037            | 0.036        | 556.89    | 710.15           | 943.95    | 7.73     | 9.38           | 9.99    | 1.11     | 1.24            | 1.32     | 540.66           | 604.36   | 426.57                | 487.15   |
| 7                                     | 55.07           | 54.95             | 34.52         | 75.01          | 0.037            | 0.036        | 521.70    | 722.66           | 889.22    | 8.29     | 9.48           | 10.21   | 1.15     | 1.27            | 1.36     | 586.05           | 642.43   | 459.53                | 511.19   |
| 8                                     | 54.95           | 55.07             | 34.52         | 75.02          | 0.037            | 0.036        | 504.50    | 717.97           | 894.69    | 8.38     | 9.29           | 9.96    | 1.09     | 1.28            | 1.35     | 622.29           | 668.99   | 487.30                | 534.07   |
| 9                                     | 54.95           | 54.95             | 34.50         | 70.04          | 0.019            | 0.018        | 180.77    | 362.97           | 497.46    | 4.75     | 6.45           | 7.56    | 1.03     | 1.08            | 1.11     | 663.42           | 701.64   | 519.81                | 563.07   |
| 10                                    | 54.95           | 54.95             | 34.51         | 70.04          | 0.019            | 0.018        | 237.07    | 351.24           | 495.11    | 6.41     | 6.89           | 7.39    | 1.01     | 1.04            | 1.06     | 676.69           | 719.88   | 545.75                | 574.43   |
| 11                                    | 54.95           | 55.07             | 39.50         | 70.01          | 0.030            | 0.029        | 382.51    | 578.78           | 814.93    | 7.34     | 8.45           | 9.16    | 1.00     | 1.11            | 1.17     | 676.62           | 731.78   | 557.57                | 607.17   |
| Section 933 Cooling Loop 43           |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                     | 4.95            | 0.62              | 88.32         | 1136.35        | 0.000            | 0.002        | -11.80    | 32.15            | 75.21     | -0.07    | 0.05           | 0.16    | -0.03    | -0.01           | 0.00     | 225.32           | 208.69   | 287.94                | 273.37   |
| Section 941 Durability Loop 44        |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                     | 30.07           | 2.97              | 1.58          | 189.57         | 0.745            | 0.804        | 14585.04  | 16031.65         | 16855.04  | 102.38   | 109.91         | 113.85  | 2.11     | 2.18            | 2.21     | 200.60           | 334.05   | 258.11                | 258.26   |
| 2                                     | 50.00           | 2.97              | 3.33          | 316.19         | 0.621            | 0.632        | 12208.70  | 12592.64         | 13015.67  | 83.48    | 85.44          | 88.96   | 1.92     | 2.02            | 2.08     | 200.68           | 480.76   | 230.49                | 240.10   |
| 3                                     | 60.02           | 2.97              | 4.81          | 588.48         | 0.528            | 0.528        | 10120.12  | 10527.51         | 10981.82  | 73.21    | 76.58          | 79.51   | 1.80     | 2.00            | 2.12     | 200.76           | 474.81   | 200.89                | 232.55   |
| 4                                     | 60.02           | 2.97              | 4.80          | 652.94         | 0.528            | 0.527        | 10289.02  | 10496.23         | 10936.47  | 73.21    | 75.41          | 78.08   | 1.81     | 1.99            | 2.11     | 207.16           | 506.02   | 189.90                | 224.92   |
| 5                                     | 69.92           | 2.97              | 8.01          | 938.84         | 0.373            | 0.374        | 7092.41   | 7448.20          | 7851.69   | 54.94    | 57.66          | 60.56   | 1.58     | 1.85            | 1.97     | 200.37           | 474.20   | 168.46                | 246.59   |
| Section 942 Speed Maintenance Loop 44 |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                     | 54.33           | 54.95             | 34.51         | 990.70         | 0.028            | 0.027        | 420.05    | 533.43           | 668.71    | 5.90     | 6.66           | 7.68    | 0.63     | 0.71            | 0.80     | 151.54           | 413.85   | 160.07                | 214.47   |
| 2                                     | 54.95           | 55.07             | 34.51         | 70.01          | 0.028            | 0.027        | 402.06    | 532.65           | 689.82    | 4.50     | 6.34           | 7.60    | 0.73     | 0.81            | 0.89     | 321.07           | 498.85   | 214.85                | 283.67   |
| 3                                     | 54.95           | 54.95             | 34.51         | 70.02          | 0.028            | 0.026        | 376.26    | 527.96           | 713.28    | 4.46     | 6.65           | 7.73    | 0.68     | 0.90            | 0.97     | 425.22           | 521.51   | 278.33                | 338.83   |
| 4                                     | 55.07           | 54.95             | 34.49         | 75.04          | 0.037            | 0.036        | 553.76    | 710.15           | 900.95    | 6.51     | 8.43           | 9.22    | 0.93     | 1.05            | 1.15     | 463.52           | 549.12   | 322.50                | 412.99   |
| 5                                     | 54.95           | 54.95             | 34.52         | 74.99          | 0.037            | 0.036        | 538.12    | 715.62           | 900.95    | 7.15     | 9.24           | 9.89    | 1.04     | 1.19            | 1.28     | 496.17           | 590.71   | 387.20                | 459.99   |
| 6                                     | 55.07           | 54.95             | 34.52         | 75.03          | 0.037            | 0.036        | 568.62    | 716.41           | 905.64    | 8.17     | 9.55           | 10.13   | 1.11     | 1.25            | 1.33     | 553.93           | 624.81   | 431.91                | 494.25   |
| 7                                     | 54.95           | 55.07             | 34.51         | 75.02          | 0.037            | 0.036        | 544.38    | 717.97           | 890.00    | 8.55     | 9.61           | 10.47   | 1.17     | 1.29            | 1.51     | 597.42           | 654.95   | 464.49                | 511.19   |
| 8                                     | 54.95           | 54.95             | 34.51         | 75.02          | 0.037            | 0.036        | 584.26    | 721.10           | 852.47    | 8.84     | 9.66           | 10.64   | 1.18     | 1.30            | 1.38     | 629.46           | 670.21   | 487.30                | 535.91   |
| 9                                     | 55.07           | 54.95             | 34.50         | 70.01          | 0.019            | 0.018        | 227.69    | 353.58           | 500.59    | 5.14     | 6.15           | 7.46    | 1.06     | 1.09            | 1.12     | 664.94           | 697.90   | 519.43                | 562.07   |
| 10                                    | 54.95           | 54.95             | 34.51         | 69.99          | 0.019            | 0.018        | 242.55    | 350.45           | 478.69    | 5.77     | 6.69           | 7.82    | 1.02     | 1.05            | 1.07     | 675.55           | 717.05   | 544.15                | 577.87   |
| 11                                    | 54.95           | 54.95             | 39.51         | 70.01          | 0.030            | 0.029        | 314.48    | 583.47           | 880.62    | 7.32     | 8.05           | 8.83    | 1.02     | 1.10            | 1.16     | 672.95           | 734.22   | 559.33                | 610.83   |
| Section 943 Cooling Loop 44           |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                     | 4.95            | 0.62              | 87.99         | 1135.51        | 0.000            | 0.002        | -7.09     | 32.15            | 75.21     | -0.07    | 0.04           | 0.16    | -0.02    | 0.00            | 0.02     | 225.02           | 208.46   | 288.32                | 273.90   |

Test Request #:  
112305-3-1



Customer Ref:

| Stop #                                 | Brake Speed mph | Release Speed mph | Stop Time sec | Cycle Time sec | Ret. Set Point g | Ret. Level g | Torque    |                  |           | Pressure |                |         | Stroke   |                 |          | Drum Temperature |          | Lead Shoe Temperature |          |
|----------------------------------------|-----------------|-------------------|---------------|----------------|------------------|--------------|-----------|------------------|-----------|----------|----------------|---------|----------|-----------------|----------|------------------|----------|-----------------------|----------|
|                                        |                 |                   |               |                |                  |              | Min lb-ft | Avg (Time) lb-ft | Max lb-ft | Min psi  | Avg (Time) psi | Max psi | Min inch | Avg (Time) inch | Max inch | Initial °F       | Final °F | Initial °F            | Final °F |
| Section 951 Durability Loop 45         |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                      | 29.95           | 2.97              | 1.61          | 180.59         | 0.745            | 0.797        | 14237.08  | 15879.17         | 16876.93  | 105.00   | 110.90         | 113.48  | 2.11     | 2.19            | 2.22     | 201.06           | 339.54   | 259.87                | 259.79   |
| 2                                      | 50.00           | 2.97              | 3.36          | 376.05         | 0.621            | 0.630        | 12213.39  | 12549.63         | 12865.54  | 84.28    | 86.19          | 89.05   | 1.93     | 2.03            | 2.09     | 200.45           | 491.90   | 225.15                | 236.29   |
| 3                                      | 60.02           | 2.97              | 4.80          | 612.35         | 0.528            | 0.527        | 10109.17  | 10509.53         | 10981.82  | 73.48    | 76.93          | 79.80   | 1.80     | 2.00            | 2.11     | 200.60           | 477.63   | 195.09                | 231.71   |
| 4                                      | 60.02           | 2.97              | 4.86          | 837.81         | 0.528            | 0.525        | 10300.75  | 10470.43         | 10765.22  | 73.63    | 76.92          | 79.83   | 1.82     | 2.02            | 2.14     | 200.53           | 510.82   | 176.24                | 216.22   |
| 5                                      | 70.05           | 2.97              | 8.04          | 671.22         | 0.373            | 0.374        | 7115.87   | 7447.42          | 7904.08   | 54.99    | 58.13          | 61.22   | 1.58     | 1.86            | 1.98     | 213.73           | 486.79   | 177.77                | 259.87   |
| Section 952 Speed Maintenance Loop 45  |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                      | 54.33           | 54.95             | 34.51         | 1068.44        | 0.028            | 0.027        | 423.18    | 528.74           | 664.80    | 5.80     | 6.55           | 7.55    | 0.62     | 0.70            | 0.78     | 152.92           | 412.48   | 161.75                | 218.74   |
| 2                                      | 54.95           | 54.95             | 34.51         | 70.00          | 0.028            | 0.027        | 399.72    | 529.52           | 732.83    | 4.83     | 6.31           | 7.55    | 0.73     | 0.81            | 0.89     | 317.41           | 489.46   | 216.53                | 289.54   |
| 3                                      | 54.95           | 55.07             | 34.51         | 69.99          | 0.028            | 0.026        | 402.06    | 521.70           | 692.17    | 4.57     | 6.71           | 7.70    | 0.81     | 0.89            | 1.09     | 407.44           | 527.15   | 280.77                | 337.99   |
| 4                                      | 54.95           | 55.07             | 34.52         | 75.03          | 0.037            | 0.036        | 556.89    | 715.62           | 878.27    | 6.39     | 8.61           | 9.49    | 0.91     | 1.05            | 1.17     | 450.02           | 573.16   | 321.97                | 417.49   |
| 5                                      | 55.07           | 54.95             | 34.52         | 75.01          | 0.037            | 0.036        | 525.61    | 717.97           | 911.11    | 7.32     | 9.20           | 9.85    | 1.02     | 1.17            | 1.27     | 497.62           | 590.32   | 388.04                | 465.71   |
| 6                                      | 54.95           | 55.07             | 34.51         | 75.04          | 0.037            | 0.036        | 566.27    | 711.71           | 931.44    | 8.21     | 9.64           | 10.30   | 1.10     | 1.23            | 1.31     | 554.39           | 628.01   | 435.35                | 501.95   |
| 7                                      | 55.07           | 54.95             | 34.51         | 75.01          | 0.037            | 0.036        | 549.07    | 711.71           | 938.48    | 8.77     | 9.68           | 10.40   | 1.09     | 1.26            | 1.34     | 602.30           | 653.04   | 468.99                | 513.93   |
| 8                                      | 54.95           | 55.07             | 34.51         | 75.01          | 0.037            | 0.036        | 549.85    | 722.66           | 885.31    | 8.94     | 10.05          | 11.29   | 1.15     | 1.28            | 1.37     | 630.46           | 674.33   | 487.69                | 532.47   |
| 9                                      | 54.95           | 54.95             | 34.51         | 70.02          | 0.019            | 0.019        | 251.15    | 373.91           | 491.21    | 5.64     | 6.73           | 7.86    | 1.06     | 1.09            | 1.12     | 670.51           | 700.11   | 515.99                | 560.47   |
| 10                                     | 54.95           | 55.07             | 34.52         | 70.01          | 0.019            | 0.020        | 251.93    | 389.55           | 474.00    | 6.70     | 7.52           | 8.08    | 0.99     | 1.05            | 1.08     | 677.76           | 727.20   | 543.99                | 585.19   |
| 11                                     | 54.95           | 55.07             | 39.52         | 70.01          | 0.030            | 0.029        | 363.75    | 581.91           | 843.08    | 7.54     | 8.54           | 9.30    | 1.01     | 1.12            | 1.19     | 684.17           | 749.17   | 565.51                | 618.99   |
| Section 953 Cooling Loop 45            |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                      | 4.95            | 0.62              | 84.67         | 1158.89        | 0.000            | 0.002        | -6.30     | 33.72            | 75.99     | -0.07    | 0.06           | 0.16    | -0.02    | -0.01           | 0.01     | 225.25           | 209.76   | 287.94                | 273.75   |
| Section 1011 Durability Loop 46        |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                      | 29.95           | 2.97              | 1.65          | 89.20          | 0.745            | 0.742        | 13536.58  | 14783.00         | 15530.53  | 108.17   | 115.49         | 118.36  | 2.07     | 2.19            | 2.25     | 199.53           | 311.69   | 126.42                | 128.10   |
| 2                                      | 50.00           | 2.97              | 3.41          | 151.93         | 0.621            | 0.615        | 11935.16  | 12256.54         | 12596.68  | 89.35    | 94.81          | 99.83   | 1.90     | 2.07            | 2.17     | 201.75           | 444.22   | 137.18                | 170.06   |
| 3                                      | 59.90           | 2.97              | 4.86          | 549.47         | 0.528            | 0.522        | 10024.87  | 10413.50         | 10897.52  | 73.37    | 79.18          | 84.69   | 1.70     | 1.94            | 2.08     | 202.28           | 489.77   | 150.61                | 203.33   |
| 4                                      | 59.90           | 2.97              | 4.82          | 682.58         | 0.528            | 0.527        | 10205.50  | 10497.95         | 10935.05  | 72.89    | 75.59          | 78.97   | 1.70     | 1.90            | 2.03     | 201.82           | 507.70   | 167.24                | 214.85   |
| 5                                      | 70.05           | 2.97              | 8.04          | 1117.12        | 0.373            | 0.373        | 7106.66   | 7431.17          | 7822.92   | 54.54    | 58.44          | 61.04   | 1.44     | 1.74            | 1.87     | 201.37           | 519.60   | 159.38                | 240.79   |
| Section 1012 Speed Maintenance Loop 46 |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                      | 54.33           | 54.95             | 34.52         | 1100.37        | 0.028            | 0.029        | 459.36    | 575.09           | 696.29    | 6.46     | 6.98           | 7.81    | 0.53     | 0.62            | 0.70     | 151.85           | 423.46   | 155.26                | 217.75   |
| 2                                      | 55.07           | 54.95             | 34.51         | 70.02          | 0.028            | 0.029        | 384.29    | 579.00           | 765.88    | 6.19     | 6.71           | 7.71    | 0.28     | 0.74            | 0.81     | 325.81           | 571.10   | 216.07                | 296.18   |
| 3                                      | 54.95           | 54.95             | 34.50         | 70.03          | 0.028            | 0.029        | 404.62    | 568.83           | 783.09    | 6.12     | 7.02           | 7.87    | 0.75     | 0.83            | 0.90     | 445.97           | 674.86   | 287.94                | 350.96   |
| 4                                      | 55.07           | 54.95             | 34.51         | 75.02          | 0.037            | 0.038        | 543.81    | 747.90           | 989.52    | 7.38     | 8.92           | 9.54    | 0.85     | 0.98            | 1.08     | 525.47           | 748.64   | 335.25                | 423.44   |
| 5                                      | 54.95           | 55.07             | 34.50         | 75.03          | 0.037            | 0.037        | 589.95    | 737.73           | 933.22    | 8.14     | 9.78           | 10.48   | 0.95     | 1.10            | 1.19     | 589.56           | 729.79   | 399.41                | 469.53   |
| 6                                      | 54.95           | 54.95             | 34.51         | 75.01          | 0.037            | 0.039        | 611.84    | 769.01           | 898.03    | 9.08     | 10.44          | 11.40   | 1.02     | 1.19            | 1.28     | 637.25           | 770.69   | 444.04                | 505.69   |
| 7                                      | 54.95           | 54.95             | 34.51         | 75.02          | 0.037            | 0.038        | 592.29    | 751.81           | 897.25    | 9.32     | 10.26          | 11.16   | 1.09     | 1.23            | 1.32     | 684.47           | 768.63   | 481.12                | 539.57   |
| 8                                      | 54.95           | 55.07             | 34.50         | 75.04          | 0.037            | 0.038        | 639.99    | 749.46           | 885.52    | 9.39     | 10.62          | 11.47   | 1.12     | 1.26            | 1.34     | 694.09           | 815.78   | 518.97                | 584.05   |
| 9                                      | 55.07           | 54.95             | 34.51         | 70.00          | 0.019            | 0.019        | 274.04    | 383.51           | 514.88    | 6.19     | 7.22           | 8.29    | 1.02     | 1.06            | 1.09     | 766.57           | 802.28   | 567.87                | 597.25   |
| 10                                     | 54.95           | 55.07             | 34.50         | 70.02          | 0.019            | 0.020        | 236.51    | 396.81           | 548.50    | 6.98     | 7.51           | 8.11    | 0.95     | 1.01            | 1.04     | 739.79           | 799.68   | 577.79                | 599.31   |
| 11                                     | 54.95           | 54.95             | 39.50         | 70.03          | 0.030            | 0.031        | 404.62    | 614.19           | 853.46    | 8.36     | 9.26           | 10.50   | 0.96     | 1.12            | 1.23     | 736.05           | 814.64   | 583.13                | 618.99   |
| Section 1013 Cooling Loop 46           |                 |                   |               |                |                  |              |           |                  |           |          |                |         |          |                 |          |                  |          |                       |          |
| 1                                      | 4.95            | 0.62              | 78.87         | 1221.83        | 0.000            | 0.002        | -15.50    | 35.51            | 81.68     | -0.06    | 0.05           | 0.15    | -0.02    | 0.00            | 0.02     | 225.02           | 210.52   | 288.63                | 275.58   |

Test Request #:  
112305-3-1



Customer Ref:

| Stop #                                        | Brake Speed mph | Release Speed mph | Stop Time sec | Cycle Time sec | Ret. Set Point g | Ret. Level g | ----- Min lb-ft | Torque Avg (Time) lb-ft | ----- Max lb-ft | ----- Min psi | Pressure Avg (Time) psi | ----- Max psi | ----- Min inch | Stroke Avg (Time) inch | ----- Max inch | Drum Temperature Initial °F | Drum Temperature Final °F | Lead Shoe Temperature Initial °F | Lead Shoe Temperature Final °F |
|-----------------------------------------------|-----------------|-------------------|---------------|----------------|------------------|--------------|-----------------|-------------------------|-----------------|---------------|-------------------------|---------------|----------------|------------------------|----------------|-----------------------------|---------------------------|----------------------------------|--------------------------------|
| <b>Section 1021 Durability Loop 47</b>        |                 |                   |               |                |                  |              |                 |                         |                 |               |                         |               |                |                        |                |                             |                           |                                  |                                |
| 1                                             | 29.95           | 2.97              | 1.57          | 280.69         | 0.745            | 0.804        | 14568.74        | 16035.67                | 16875.48        | 101.90        | 109.00                  | 112.56        | 2.03           | 2.10                   | 2.13           | 200.60                      | 324.13                    | 245.45                           | 245.90                         |
| 2                                             | 50.00           | 2.97              | 3.32          | 508.78         | 0.621            | 0.634        | 12352.72        | 12633.43                | 12955.59        | 83.36         | 86.53                   | 90.26         | 1.85           | 1.97                   | 2.02           | 201.14                      | 498.01                    | 203.33                           | 212.41                         |
| 3                                             | 60.02           | 2.97              | 4.81          | 890.08         | 0.528            | 0.529        | 10210.19        | 10546.43                | 10892.83        | 74.44         | 79.35                   | 82.26         | 1.71           | 1.94                   | 2.05           | 200.45                      | 522.12                    | 168.69                           | 202.64                         |
| 4                                             | 60.02           | 2.97              | 4.82          | 844.40         | 0.528            | 0.528        | 10278.22        | 10519.84                | 10956.17        | 74.24         | 77.49                   | 80.16         | 1.74           | 1.95                   | 2.07           | 200.83                      | 517.16                    | 166.25                           | 205.08                         |
| 5                                             | 70.05           | 2.97              | 8.00          | 926.31         | 0.373            | 0.374        | 7112.13         | 7456.19                 | 7873.75         | 51.99         | 59.24                   | 62.46         | 1.48           | 1.78                   | 1.90           | 200.83                      | 513.88                    | 162.97                           | 237.51                         |
| <b>Section 1022 Speed Maintenance Loop 47</b> |                 |                   |               |                |                  |              |                 |                         |                 |               |                         |               |                |                        |                |                             |                           |                                  |                                |
| 1                                             | 54.45           | 54.95             | 34.51         | 1053.90        | 0.028            | 0.029        | 449.98          | 574.31                  | 704.89          | 6.39          | 7.07                    | 7.99          | 0.55           | 0.64                   | 0.73           | 152.77                      | 485.80                    | 158.16                           | 216.07                         |
| 2                                             | 54.95           | 55.07             | 34.50         | 70.01          | 0.028            | 0.029        | 428.08          | 577.43                  | 716.62          | 5.89          | 7.00                    | 7.86          | 0.68           | 0.76                   | 0.84           | 352.59                      | 604.82                    | 218.13                           | 291.60                         |
| 3                                             | 54.95           | 54.95             | 34.50         | 70.03          | 0.028            | 0.029        | 435.12          | 571.96                  | 710.36          | 5.91          | 7.35                    | 8.00          | 0.77           | 0.86                   | 0.93           | 482.90                      | 618.71                    | 287.33                           | 347.61                         |
| 4                                             | 55.07           | 54.95             | 34.51         | 75.02          | 0.037            | 0.038        | 547.72          | 751.81                  | 987.17          | 7.30          | 9.24                    | 9.91          | 0.90           | 1.04                   | 1.15           | 530.81                      | 626.41                    | 333.87                           | 416.27                         |
| 5                                             | 54.95           | 55.07             | 34.51         | 75.01          | 0.037            | 0.037        | 575.87          | 736.17                  | 968.41          | 8.51          | 9.79                    | 10.40         | 1.01           | 1.15                   | 1.24           | 568.81                      | 647.39                    | 395.29                           | 467.93                         |
| 6                                             | 55.07           | 54.95             | 34.50         | 75.03          | 0.037            | 0.038        | 581.34          | 761.19                  | 937.91          | 9.15          | 10.50                   | 11.49         | 1.08           | 1.23                   | 1.33           | 600.01                      | 683.56                    | 443.05                           | 506.23                         |
| 7                                             | 54.95           | 55.07             | 34.50         | 75.01          | 0.037            | 0.037        | 547.72          | 747.12                  | 948.86          | 9.29          | 10.51                   | 11.06         | 1.13           | 1.27                   | 1.35           | 643.43                      | 702.40                    | 480.13                           | 527.21                         |
| 8                                             | 54.95           | 54.95             | 34.52         | 75.01          | 0.037            | 0.038        | 632.17          | 753.37                  | 873.79          | 9.53          | 10.35                   | 11.03         | 1.17           | 1.29                   | 1.37           | 670.21                      | 728.19                    | 506.91                           | 562.69                         |
| 9                                             | 55.07           | 54.95             | 34.51         | 70.04          | 0.019            | 0.020        | 219.30          | 399.15                  | 571.18          | 6.87          | 7.53                    | 8.15          | 1.05           | 1.10                   | 1.12           | 719.04                      | 764.20                    | 552.39                           | 594.65                         |
| 10                                            | 54.95           | 54.95             | 34.50         | 70.02          | 0.019            | 0.020        | 243.54          | 406.97                  | 547.72          | 7.18          | 7.75                    | 8.24          | 1.00           | 1.06                   | 1.08           | 724.83                      | 776.11                    | 578.17                           | 605.79                         |
| 11                                            | 55.07           | 54.95             | 39.52         | 70.02          | 0.030            | 0.031        | 393.68          | 614.97                  | 846.42          | 8.49          | 9.20                    | 9.83          | 1.01           | 1.16                   | 1.23           | 725.83                      | 783.89                    | 590.15                           | 631.73                         |
| <b>Section 1023 Cooling Loop 47</b>           |                 |                   |               |                |                  |              |                 |                         |                 |               |                         |               |                |                        |                |                             |                           |                                  |                                |
| 1                                             | 4.95            | 0.62              | 91.18         | 1213.59        | 0.000            | 0.001        | -17.86          | 29.23                   | 74.64           | -0.11         | 0.01                    | 0.10          | -0.03          | -0.01                  | 0.00           | 225.40                      | 209.15                    | 292.75                           | 277.18                         |
| <b>Section 1031 Durability Loop 48</b>        |                 |                   |               |                |                  |              |                 |                         |                 |               |                         |               |                |                        |                |                             |                           |                                  |                                |
| 1                                             | 29.95           | 2.97              | 1.64          | 205.52         | 0.745            | 0.803        | 14829.91        | 16016.12                | 16866.09        | 109.70        | 115.84                  | 119.00        | 2.13           | 2.19                   | 2.21           | 200.45                      | 341.06                    | 260.32                           | 260.70                         |
| 2                                             | 50.00           | 2.97              | 3.28          | 484.09         | 0.621            | 0.636        | 12361.32        | 12680.35                | 13006.42        | 85.07         | 88.56                   | 92.72         | 1.90           | 2.00                   | 2.04           | 200.45                      | 491.60                    | 214.16                           | 223.09                         |
| 3                                             | 60.02           | 2.97              | 4.79          | 806.37         | 0.528            | 0.531        | 10227.39        | 10593.34                | 10989.79        | 76.90         | 80.42                   | 83.13         | 1.77           | 1.99                   | 2.09           | 200.98                      | 482.52                    | 177.92                           | 210.50                         |
| 4                                             | 60.02           | 2.97              | 4.82          | 850.11         | 0.528            | 0.528        | 10257.11        | 10518.28                | 10845.91        | 74.30         | 78.03                   | 80.10         | 1.76           | 1.96                   | 2.07           | 201.21                      | 505.86                    | 170.37                           | 207.60                         |
| 5                                             | 70.05           | 2.97              | 8.00          | 872.24         | 0.373            | 0.375        | 7081.64         | 7467.92                 | 7850.29         | 55.00         | 58.59                   | 61.57         | 1.51           | 1.80                   | 1.92           | 200.37                      | 486.41                    | 167.24                           | 242.16                         |
| <b>Section 1032 Speed Maintenance Loop 48</b> |                 |                   |               |                |                  |              |                 |                         |                 |               |                         |               |                |                        |                |                             |                           |                                  |                                |
| 1                                             | 54.33           | 54.95             | 34.51         | 1059.55        | 0.028            | 0.029        | 425.74          | 568.83                  | 743.21          | 5.62          | 6.66                    | 7.84          | 0.58           | 0.67                   | 0.77           | 153.30                      | 450.17                    | 159.76                           | 220.65                         |
| 2                                             | 55.07           | 54.95             | 34.50         | 70.02          | 0.028            | 0.029        | 372.57          | 575.09                  | 763.54          | 4.81          | 6.51                    | 7.85          | 0.71           | 0.79                   | 0.88           | 347.09                      | 545.31                    | 221.03                           | 296.95                         |
| 3                                             | 54.95           | 55.07             | 34.49         | 70.03          | 0.028            | 0.029        | 411.66          | 574.31                  | 780.74          | 4.77          | 6.98                    | 7.85          | 0.79           | 0.89                   | 0.97           | 460.77                      | 577.74                    | 289.85                           | 354.63                         |
| 4                                             | 54.95           | 55.07             | 34.49         | 75.03          | 0.037            | 0.038        | 541.46          | 753.37                  | 926.18          | 6.77          | 9.07                    | 9.96          | 0.92           | 1.07                   | 1.20           | 507.62                      | 597.34                    | 338.15                           | 421.77                         |
| 5                                             | 55.07           | 54.95             | 34.51         | 75.01          | 0.037            | 0.037        | 560.23          | 744.77                  | 928.53          | 7.38          | 9.74                    | 10.49         | 1.04           | 1.19                   | 1.28           | 550.04                      | 628.85                    | 399.11                           | 470.21                         |
| 6                                             | 54.95           | 54.95             | 34.52         | 75.00          | 0.037            | 0.038        | 582.91          | 755.72                  | 970.75          | 8.72          | 10.33                   | 11.22         | 1.11           | 1.25                   | 1.34           | 583.99                      | 657.85                    | 443.89                           | 506.23                         |
| 7                                             | 55.07           | 55.07             | 34.51         | 74.99          | 0.037            | 0.038        | 519.57          | 754.94                  | 963.71          | 9.04          | 10.27                   | 11.06         | 1.15           | 1.28                   | 1.36           | 625.88                      | 680.89                    | 479.29                           | 529.19                         |
| 8                                             | 54.95           | 54.95             | 34.50         | 75.02          | 0.037            | 0.038        | 625.91          | 754.94                  | 881.61          | 9.42          | 10.22                   | 10.82         | 1.17           | 1.28                   | 1.36           | 661.51                      | 717.66                    | 507.90                           | 571.15                         |
| 9                                             | 55.07           | 54.95             | 34.50         | 70.01          | 0.019            | 0.020        | 188.81          | 392.90                  | 615.75          | 6.33          | 7.00                    | 7.71          | 1.05           | 1.08                   | 1.11           | 707.82                      | 753.37                    | 558.41                           | 597.93                         |
| 10                                            | 54.95           | 55.07             | 34.51         | 70.04          | 0.019            | 0.020        | 227.12          | 396.02                  | 604.02          | 6.63          | 7.33                    | 7.82          | 0.99           | 1.04                   | 1.07           | 721.48                      | 761.46                    | 578.55                           | 605.79                         |
| 11                                            | 54.95           | 54.95             | 39.51         | 70.03          | 0.030            | 0.031        | 376.47          | 614.19                  | 864.41          | 7.72          | 8.76                    | 9.39          | 1.00           | 1.12                   | 1.19           | 718.50                      | 764.81                    | 588.63                           | 631.28                         |
| <b>Section 1033 Cooling Loop 48</b>           |                 |                   |               |                |                  |              |                 |                         |                 |               |                         |               |                |                        |                |                             |                           |                                  |                                |
| 1                                             | 4.95            | 0.62              | 91.08         | 1201.40        | 0.000            | 0.001        | -17.07          | 29.23                   | 71.52           | -0.11         | 0.01                    | 0.11          | -0.03          | -0.02                  | 0.00           | 225.25                      | 208.92                    | 291.91                           | 276.65                         |

Test Request #:  
112305-3-1



Customer Ref:

| Stop #                                        | Brake Speed mph | Release Speed mph | Stop Time sec | Cycle Time sec | Ret. Set Point g | Ret. Level g | -----<br>Min<br>lb-ft | Torque Avg (Time) lb-ft | -----<br>Max<br>lb-ft | -----<br>Min<br>psi | Pressure Avg (Time) psi | -----<br>Max<br>psi | -----<br>Min<br>inch | Stroke Avg (Time) inch | -----<br>Max<br>inch | Drum Temperature Initial °F | Drum Temperature Final °F | Lead Shoe Temperature Initial °F | Lead Shoe Temperature Final °F |
|-----------------------------------------------|-----------------|-------------------|---------------|----------------|------------------|--------------|-----------------------|-------------------------|-----------------------|---------------------|-------------------------|---------------------|----------------------|------------------------|----------------------|-----------------------------|---------------------------|----------------------------------|--------------------------------|
| <b>Section 1041 Durability Loop 49</b>        |                 |                   |               |                |                  |              |                       |                         |                       |                     |                         |                     |                      |                        |                      |                             |                           |                                  |                                |
| 1                                             | 29.95           | 2.97              | 1.65          | 193.90         | 0.745            | 0.790        | 14505.41              | 15746.35                | 16764.44              | 112.85              | 117.63                  | 120.03              | 2.12                 | 2.18                   | 2.21                 | 200.07                      | 338.17                    | 260.55                           | 260.70                         |
| 2                                             | 50.00           | 2.97              | 3.31          | 490.46         | 0.621            | 0.635        | 12202.58              | 12659.24                | 12889.91              | 86.68               | 90.93                   | 94.51               | 1.91                 | 2.04                   | 2.08                 | 200.91                      | 482.37                    | 214.47                           | 225.61                         |
| 3                                             | 60.02           | 2.97              | 4.80          | 923.49         | 0.528            | 0.530        | 10215.67              | 10558.94                | 10904.56              | 75.38               | 79.58                   | 82.08               | 1.76                 | 1.98                   | 2.08                 | 200.98                      | 482.82                    | 171.59                           | 208.67                         |
| 4                                             | 60.02           | 2.97              | 4.81          | 914.49         | 0.528            | 0.526        | 10248.51              | 10487.78                | 10869.37              | 74.95               | 79.10                   | 82.10               | 1.78                 | 1.99                   | 2.10                 | 200.83                      | 507.77                    | 164.72                           | 207.83                         |
| 5                                             | 69.92           | 2.97              | 7.97          | 907.53         | 0.373            | 0.375        | 7062.09               | 7466.35                 | 7883.91               | 56.02               | 60.37                   | 63.95               | 1.56                 | 1.84                   | 1.96                 | 201.14                      | 472.52                    | 163.35                           | 243.00                         |
| <b>Section 1042 Speed Maintenance Loop 49</b> |                 |                   |               |                |                  |              |                       |                         |                       |                     |                         |                     |                      |                        |                      |                             |                           |                                  |                                |
| 1                                             | 54.33           | 55.07             | 34.50         | 1055.52        | 0.028            | 0.029        | 440.59                | 575.87                  | 731.48                | 5.56                | 6.58                    | 7.69                | 0.59                 | 0.68                   | 0.77                 | 152.84                      | 431.93                    | 158.01                           | 221.87                         |
| 2                                             | 55.07           | 54.95             | 34.53         | 69.99          | 0.028            | 0.029        | 369.44                | 579.78                  | 784.65                | 4.53                | 6.39                    | 7.78                | 0.70                 | 0.80                   | 0.88                 | 341.67                      | 517.69                    | 221.03                           | 301.90                         |
| 3                                             | 54.95           | 55.07             | 34.51         | 70.00          | 0.028            | 0.029        | 399.93                | 576.65                  | 794.81                | 4.59                | 6.81                    | 7.82                | 0.80                 | 0.90                   | 0.98                 | 456.65                      | 557.21                    | 292.06                           | 357.14                         |
| 4                                             | 55.07           | 54.95             | 34.52         | 75.02          | 0.037            | 0.038        | 545.37                | 756.50                  | 919.14                | 6.44                | 8.92                    | 9.98                | 0.93                 | 1.08                   | 1.23                 | 502.13                      | 583.69                    | 338.45                           | 424.97                         |
| 5                                             | 54.95           | 55.07             | 34.50         | 75.01          | 0.037            | 0.037        | 576.65                | 743.21                  | 920.71                | 7.22                | 9.46                    | 10.16               | 1.05                 | 1.20                   | 1.30                 | 539.82                      | 618.63                    | 399.41                           | 473.11                         |
| 6                                             | 54.95           | 54.95             | 34.52         | 75.02          | 0.037            | 0.038        | 561.80                | 755.72                  | 988.74                | 8.64                | 10.13                   | 10.99               | 1.13                 | 1.27                   | 1.50                 | 577.81                      | 645.94                    | 443.89                           | 510.65                         |
| 7                                             | 54.95           | 55.07             | 34.50         | 75.01          | 0.037            | 0.038        | 522.70                | 751.81                  | 981.70                | 9.02                | 10.02                   | 10.53               | 1.18                 | 1.31                   | 1.51                 | 622.44                      | 672.11                    | 480.97                           | 533.69                         |
| 8                                             | 54.95           | 54.95             | 34.50         | 75.04          | 0.037            | 0.038        | 593.07                | 761.97                  | 904.29                | 9.32                | 10.23                   | 11.31               | 1.21                 | 1.33                   | 1.41                 | 657.46                      | 703.62                    | 509.81                           | 569.93                         |
| 9                                             | 54.95           | 54.95             | 34.50         | 70.04          | 0.019            | 0.020        | 181.77                | 398.37                  | 595.42                | 6.38                | 7.18                    | 7.81                | 1.08                 | 1.13                   | 1.15                 | 701.72                      | 738.03                    | 553.07                           | 596.71                         |
| 10                                            | 54.95           | 55.07             | 34.51         | 70.02          | 0.019            | 0.020        | 220.09                | 399.15                  | 589.95                | 6.77                | 7.39                    | 8.00                | 1.04                 | 1.09                   | 1.11                 | 713.92                      | 752.61                    | 577.79                           | 608.23                         |
| 11                                            | 54.95           | 54.95             | 39.51         | 70.00          | 0.030            | 0.031        | 376.47                | 615.75                  | 858.15                | 7.93                | 8.79                    | 9.49                | 1.04                 | 1.17                   | 1.24                 | 714.15                      | 755.58                    | 590.69                           | 638.07                         |
| <b>Section 1043 Cooling Loop 49</b>           |                 |                   |               |                |                  |              |                       |                         |                       |                     |                         |                     |                      |                        |                      |                             |                           |                                  |                                |
| 1                                             | 4.95            | 0.62              | 86.03         | 1201.16        | 0.000            | 0.002        | -10.01                | 32.37                   | 78.55                 | -0.09               | 0.02                    | 0.13                | -0.02                | 0.00                   | 0.02                 | 225.02                      | 209.15                    | 293.13                           | 278.71                         |
| <b>Section 1051 Durability Loop 50</b>        |                 |                   |               |                |                  |              |                       |                         |                       |                     |                         |                     |                      |                        |                      |                             |                           |                                  |                                |
| 1                                             | 30.07           | 2.97              | 1.65          | 181.32         | 0.745            | 0.791        | 14496.02              | 15769.81                | 16772.26              | 111.38              | 115.63                  | 117.54              | 2.12                 | 2.18                   | 2.21                 | 200.68                      | 336.41                    | 263.45                           | 263.99                         |
| 2                                             | 50.00           | 2.97              | 3.33          | 461.82         | 0.621            | 0.635        | 12211.97              | 12651.42                | 12887.57              | 87.28               | 91.45                   | 94.76               | 1.93                 | 2.04                   | 2.09                 | 200.76                      | 474.20                    | 218.13                           | 229.42                         |
| 3                                             | 59.90           | 2.97              | 4.76          | 801.52         | 0.528            | 0.534        | 10199.24              | 10647.30                | 10952.26              | 75.23               | 78.92                   | 80.77               | 1.76                 | 1.98                   | 2.07                 | 200.98                      | 477.10                    | 180.29                           | 218.59                         |
| 4                                             | 60.02           | 2.97              | 4.81          | 927.80         | 0.528            | 0.530        | 10368.14              | 10558.16                | 10895.17              | 75.12               | 76.99                   | 78.34               | 1.80                 | 1.99                   | 2.10                 | 200.30                      | 509.30                    | 168.46                           | 210.35                         |
| 5                                             | 69.92           | 2.97              | 7.96          | 1022.89        | 0.373            | 0.376        | 7153.58               | 7496.07                 | 7832.30               | 56.12               | 59.40                   | 62.12               | 1.54                 | 1.83                   | 1.95                 | 200.68                      | 469.62                    | 161.44                           | 244.22                         |
| <b>Section 1052 Speed Maintenance Loop 50</b> |                 |                   |               |                |                  |              |                       |                         |                       |                     |                         |                     |                      |                        |                      |                             |                           |                                  |                                |
| 1                                             | 54.21           | 54.95             | 34.50         | 1069.90        | 0.028            | 0.029        | 431.21                | 576.65                  | 723.66                | 5.72                | 6.65                    | 7.79                | 0.58                 | 0.68                   | 0.77                 | 152.54                      | 421.79                    | 155.64                           | 218.97                         |
| 2                                             | 55.07           | 54.95             | 34.50         | 70.03          | 0.028            | 0.029        | 392.90                | 579.00                  | 784.65                | 4.78                | 6.37                    | 7.79                | 0.70                 | 0.80                   | 0.89                 | 332.67                      | 500.75                    | 217.75                           | 296.95                         |
| 3                                             | 54.95           | 54.95             | 34.51         | 70.00          | 0.028            | 0.029        | 398.37                | 576.65                  | 764.32                | 4.58                | 6.89                    | 7.89                | 0.80                 | 0.90                   | 0.98                 | 423.31                      | 550.88                    | 286.26                           | 352.57                         |
| 4                                             | 55.07           | 54.95             | 34.51         | 75.01          | 0.037            | 0.037        | 517.22                | 744.77                  | 988.74                | 6.33                | 8.76                    | 9.56                | 0.92                 | 1.07                   | 1.18                 | 485.49                      | 585.75                    | 333.19                           | 424.13                         |
| 5                                             | 54.95           | 55.07             | 34.51         | 74.99          | 0.037            | 0.038        | 576.65                | 749.46                  | 991.08                | 7.48                | 9.55                    | 10.22               | 1.03                 | 1.20                   | 1.30                 | 543.25                      | 616.19                    | 397.50                           | 474.94                         |
| 6                                             | 55.07           | 54.95             | 34.51         | 75.02          | 0.037            | 0.038        | 527.39                | 759.63                  | 946.51                | 8.70                | 10.23                   | 10.84               | 1.11                 | 1.26                   | 1.35                 | 592.08                      | 658.46                    | 444.43                           | 515.69                         |
| 7                                             | 55.07           | 55.07             | 34.50         | 75.05          | 0.037            | 0.037        | 554.76                | 744.77                  | 1035.65               | 8.97                | 9.72                    | 10.26               | 1.17                 | 1.28                   | 1.36                 | 643.12                      | 697.67                    | 483.18                           | 550.55                         |
| 8                                             | 54.95           | 55.07             | 34.50         | 75.03          | 0.037            | 0.038        | 528.95                | 763.54                  | 967.62                | 9.28                | 10.09                   | 10.65               | 1.17                 | 1.30                   | 1.38                 | 681.73                      | 724.91                    | 521.33                           | 579.85                         |
| 9                                             | 55.07           | 54.95             | 34.50         | 70.00          | 0.019            | 0.019        | 280.30                | 388.20                  | 505.50                | 7.38                | 7.77                    | 8.26                | 1.06                 | 1.11                   | 1.13                 | 730.48                      | 754.51                    | 561.39                           | 608.23                         |
| 10                                            | 54.95           | 54.95             | 34.51         | 70.01          | 0.019            | 0.020        | 165.35                | 396.02                  | 665.79                | 6.31                | 7.04                    | 7.60                | 1.00                 | 1.05                   | 1.07                 | 729.11                      | 757.18                    | 583.13                           | 611.97                         |
| 11                                            | 55.07           | 54.95             | 39.51         | 70.02          | 0.030            | 0.031        | 346.76                | 613.40                  | 914.45                | 7.86                | 8.70                    | 9.61                | 1.01                 | 1.13                   | 1.23                 | 726.59                      | 776.33                    | 590.91                           | 635.01                         |
| <b>Section 1053 Cooling Loop 50</b>           |                 |                   |               |                |                  |              |                       |                         |                       |                     |                         |                     |                      |                        |                      |                             |                           |                                  |                                |
| 1                                             | 4.95            | 0.62              | 78.79         | 1210.30        | 0.000            | 0.002        | -12.36                | 36.29                   | 85.59                 | -0.10               | 0.01                    | 0.11                | -0.03                | -0.02                  | 0.00                 | 225.17                      | 210.52                    | 289.39                           | 276.35                         |

Test Request #:  
112305-3-1



Customer Ref:

## Initial Drum

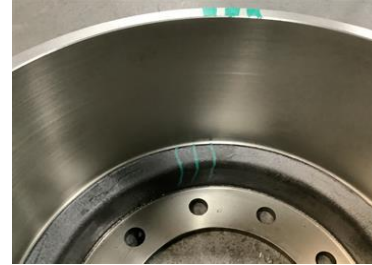
View #1



View #2



View #3



Test Number



## Leading Shoe

Full



Cam



Anchor



Test Number



## Trailing Shoe

Full



Cam



Anchor



Test Number



### Test Description

MERITOR DRIVE SAE J2686 PART A

### Drum

Primary Lining  
Secondary Lining

054.1640  
MERITOR MA2301  
MERITOR MA2301

Air Chamber  
Slack Adjuster  
Actual Inertia  
Actual Wheel Load  
Rolling Radius

MGM / 30/30" LONG STROKE  
AUTOMATIC / 6.0 inch / HALDEX  
1069.96 slug-ft²  
11501.27 lb  
20.80 inch

Post Loop 5

Drum

View #1



View #2

Drum

View #3



Test Number

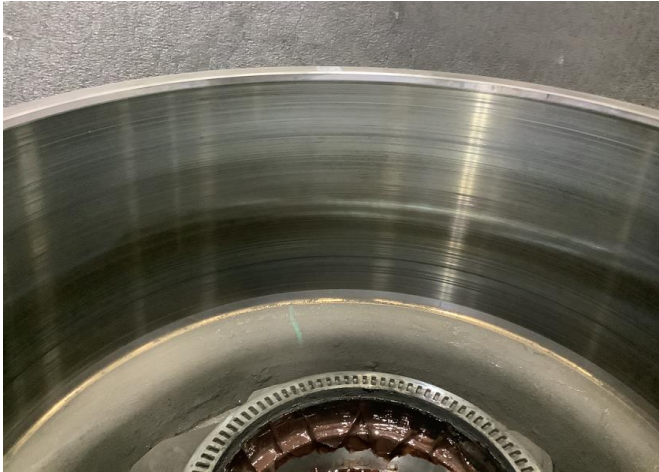


|                                |                  |                |                                      |                               |
|--------------------------------|------------------|----------------|--------------------------------------|-------------------------------|
| Test Description               | Drum 054.1640    |                | Air Chamber MGM / 30/30" LONG STROKE |                               |
| MERITOR DRIVE SAE J2686 PART A | Primary Lining   | MERITOR MA2301 | Slack Adjuster                       | AUTOMATIC / 6.0 inch / HALDEX |
|                                | Secondary Lining | MERITOR MA2301 | Actual Inertia                       | 1069.96 slug·ft²              |
|                                |                  |                | Actual Wheel Load                    | 11501.27 lb                   |
|                                |                  |                | Rolling Radius                       | 20.80 inch                    |

Post Loop 10

Drum

View #1



View #2

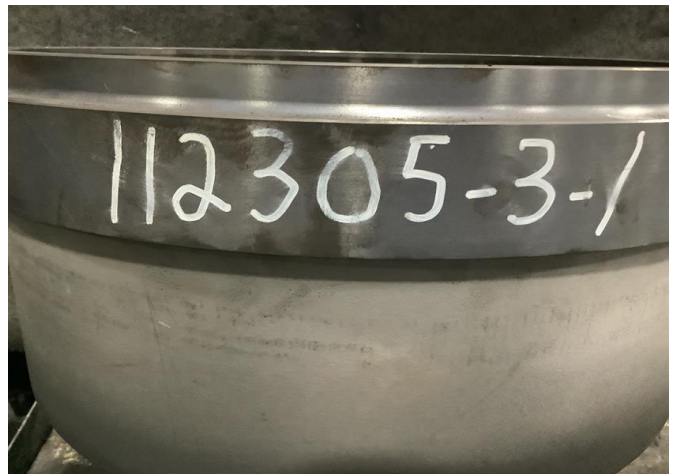


Drum

View #3



Test Number



Test Description

MERITOR DRIVE SAE J2686 PART A

Drum

054.1640

Primary Lining

MERITOR MA2301

Secondary Lining

MERITOR MA2301

Air Chamber MGM / 30/30" LONG STROKE

Slack Adjuster AUTOMATIC / 6.0 inch / HALDEX

Actual Inertia 1069.96 slug·ft<sup>2</sup>

Actual Wheel Load 11501.27 lb

Rolling Radius 20.80 inch

Post Loop 15

Drum

View #1



View #2

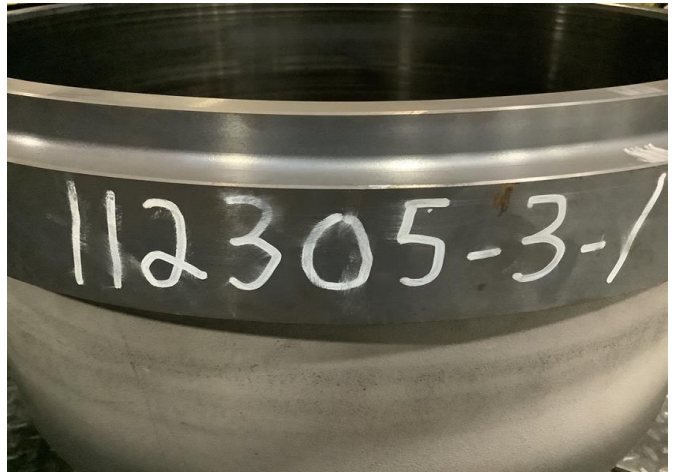


Drum

View #3



Test Number



Test Description

MERITOR DRIVE SAE J2686 PART A

Drum

054.1640

Primary Lining

MERITOR MA2301

Secondary Lining

MERITOR MA2301

Air Chamber MGM / 30/30" LONG STROKE

Slack Adjuster AUTOMATIC / 6.0 inch / HALDEX

Actual Inertia 1069.96 slug·ft<sup>2</sup>

Actual Wheel Load 11501.27 lb

Rolling Radius 20.80 inch

Post Loop 20

Drum

View #1



View #2



Drum

View #3



Test Number



Test Description

MERITOR DRIVE SAE J2686 PART A

Drum

054.1640

Primary Lining

MERITOR MA2301

Secondary Lining

MERITOR MA2301

Air Chamber MGM / 30/30" LONG STROKE

Slack Adjuster AUTOMATIC / 6.0 inch / HALDEX

Actual Inertia 1069.96 slug·ft<sup>2</sup>

Actual Wheel Load 11501.27 lb

Rolling Radius 20.80 inch

Post Loop 25  
Drum

View #1



View #2



Drum

View #3



Test Number



|                                |                  |                |                                              |                  |
|--------------------------------|------------------|----------------|----------------------------------------------|------------------|
| Test Description               | Drum 054.1640    |                | Air Chamber MGM / 30/30" LONG STROKE         |                  |
| MERITOR DRIVE SAE J2686 PART A | Primary Lining   | MERITOR MA2301 | Slack Adjuster AUTOMATIC / 6.0 inch / HALDEX |                  |
|                                | Secondary Lining | MERITOR MA2301 | Actual Inertia                               | 1069.96 slug·ft² |
|                                |                  |                | Actual Wheel Load                            | 11501.27 lb      |
|                                |                  |                | Rolling Radius                               | 20.80 inch       |

Post Loop 30

Drum

View #1



View #2



Drum

View #3



Test Number



|                                |                  |                |                   |                               |
|--------------------------------|------------------|----------------|-------------------|-------------------------------|
| Test Description               | Drum             | 054.1640       | Air Chamber       | MGM / 30/30" LONG STROKE      |
| MERITOR DRIVE SAE J2686 PART A | Primary Lining   | MERITOR MA2301 | Slack Adjuster    | AUTOMATIC / 6.0 inch / HALDEX |
|                                | Secondary Lining | MERITOR MA2301 | Actual Inertia    | 1069.96 slug·ft²              |
|                                |                  |                | Actual Wheel Load | 11501.27 lb                   |
|                                |                  |                | Rolling Radius    | 20.80 inch                    |

Post Loop 35

Drum

View #1

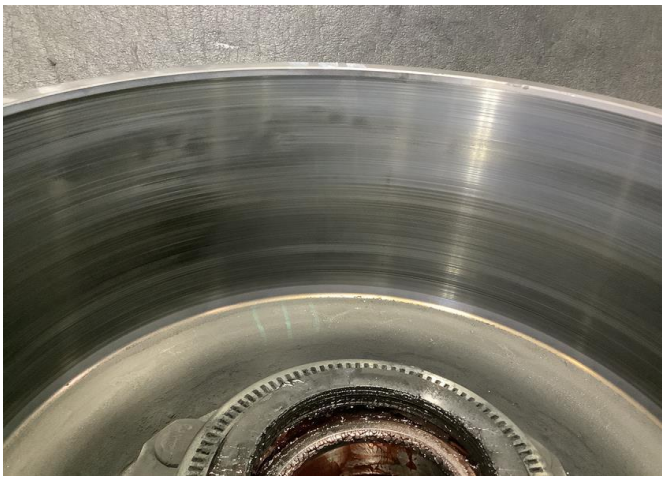


View #2



Drum

View #3



Test Number



|                                                        |                  |  |                   |  |                               |
|--------------------------------------------------------|------------------|--|-------------------|--|-------------------------------|
| Test Description<br><br>MERITOR DRIVE SAE J2686 PART A | Drum             |  | Air Chamber       |  | MGM / 30/30" LONG STROKE      |
|                                                        | Primary Lining   |  | Slack Adjuster    |  | AUTOMATIC / 6.0 inch / HALDEX |
|                                                        | Secondary Lining |  | Actual Inertia    |  | 1069.96 slug·ft²              |
|                                                        |                  |  | Actual Wheel Load |  | 11501.27 lb                   |
|                                                        |                  |  | Rolling Radius    |  | 20.80 inch                    |

Post Loop 40

Drum

View #1



View #2



Drum

View #3



Test Number



|                                |                  |                |                   |                               |
|--------------------------------|------------------|----------------|-------------------|-------------------------------|
| Test Description               | Drum             | 054.1640       | Air Chamber       | MGM / 30/30" LONG STROKE      |
| MERITOR DRIVE SAE J2686 PART A | Primary Lining   | MERITOR MA2301 | Slack Adjuster    | AUTOMATIC / 6.0 inch / HALDEX |
|                                | Secondary Lining | MERITOR MA2301 | Actual Inertia    | 1069.96 slug·ft <sup>2</sup>  |
|                                |                  |                | Actual Wheel Load | 11501.27 lb                   |
|                                |                  |                | Rolling Radius    | 20.80 inch                    |

Post Loop 45

Drum

View #1



View #2



Drum

View #3



Test Number



|                                |                  |  |                |                   |                               |
|--------------------------------|------------------|--|----------------|-------------------|-------------------------------|
| Test Description               | Drum             |  | 054.1640       | Air Chamber       | MGM / 30/30" LONG STROKE      |
|                                | Primary Lining   |  | MERITOR MA2301 | Slack Adjuster    | AUTOMATIC / 6.0 inch / HALDEX |
|                                | Secondary Lining |  | MERITOR MA2301 | Actual Inertia    | 1069.96 slug·ft²              |
|                                |                  |  |                | Actual Wheel Load | 11501.27 lb                   |
|                                |                  |  |                | Rolling Radius    | 20.80 inch                    |
| MERITOR DRIVE SAE J2686 PART A |                  |  |                |                   |                               |

Test Request #:  
112305-3-1



Customer Ref:

## Final

### Drum

View #1



View #2



View #3



Test Number

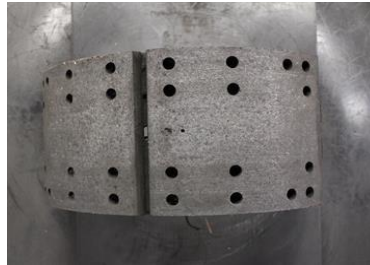


### Leading Shoe

Full



Cam



Anchor



Test Number



### Trailing Shoe

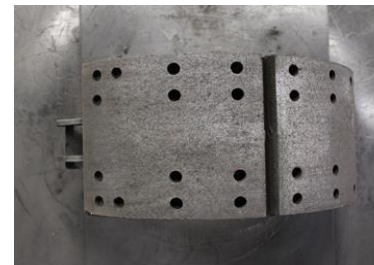
Full



Cam



Anchor



Test Number



#### Test Description

MERITOR DRIVE SAE J2686 PART A

#### Drum

Primary Lining  
Secondary Lining

054.1640  
MERITOR MA2301  
MERITOR MA2301

Air Chamber  
Slack Adjuster  
Actual Inertia  
Actual Wheel Load  
Rolling Radius

MGM / 30/30" LONG STROKE  
AUTOMATIC / 6.0 inch / HALDEX  
1069.96 slug-ft<sup>2</sup>  
11501.27 lb  
20.80 inch