



**VALVE IDENTIFICATION CHART:**

- V1 PUMP SUCTION VALVE
- V2 PUMP DISCHARGE VALVE
- V3 PUMP DISCHARGE CHECK VALVE
- V4 PRESSURE RELIEF VALVE
- V5 CARGO FILL/LOAD VALVE
- V6 STBD HEADER VALVE
- V7 PORT HEADER VALVE
- V8 #1 PORT CARGO FILL/SUCTION VALVE
- V9 #1 STBD. CARGO FILL/SUCTION VALVE
- V10 #2 PORT CARGO FILL/SUCTION VALVE
- V11 #2 STBD. CARGO FILL/SUCTION VALVE
- V12 #3 PORT CARGO FILL/SUCTION VALVE
- V13 #3 STBD. CARGO FILL/SUCTION VALVE
- V14 #1 PORT CARGO HIGH LOADING VALVE
- V15 #1 STBD. CARGO HIGH LOADING VALVE
- V16 #2 PORT CARGO HIGH LOADING VALVE
- V17 #2 STBD. CARGO HIGH LOADING VALVE
- V18 #3 PORT CARGO HIGH LOADING VALVE
- V19 #3 STBD. CARGO HIGH LOADING VALVE
- V20 HEADER BLOCK VALVE
- V21 PUMPWELL DRAIN VALVE
- PU CARGO PUMP

**TO LOAD**

- OPEN: V5,V8,V9,V10,V11,V12,V13
- OPEN: V14,V15,V16,V17,V18,V19
- CLOSE V1 & V2
- OPEN: V6 OR V7 TO DOCK
- OPEN: V20 IF NECESSARY

**TO PUMP**

- OPEN: V1,V2,V8,V9,V10,V11,V12,V13
- CLOSE: V5,V14,V15,V16,V17,V18,V19
- OPEN: V6 OR V7 TO DOCK
- OPEN: V20 IF NECESSARY

**HOT OIL SYSTEM:**

- H1 #1 PORT HOT OIL SUPPLY VALVE - LOWER
- H2 #1 PORT HOT OIL SUPPLY VALVE - UPPER
- H3 #1 STBD HOT OIL SUPPLY VALVE - LOWER
- H4 #1 STBD HOT OIL SUPPLY VALVE - UPPER
- H5 #1 PORT HOT OIL RETURN VALVE - LOWER
- H6 #1 PORT HOT OIL RETURN VALVE - UPPER
- H7 #1 STBD HOT OIL RETURN VALVE - LOWER
- H8 #1 STBD HOT OIL RETURN VALVE - UPPER
- H9 #2 PORT HOT OIL SUPPLY VALVE - LOWER
- H10 #2 PORT HOT OIL SUPPLY VALVE - UPPER
- H11 #2 STBD HOT OIL SUPPLY VALVE - LOWER
- H12 #2 STBD HOT OIL SUPPLY VALVE - UPPER
- H13 #2 PORT HOT OIL RETURN VALVE - LOWER
- H14 #2 PORT HOT OIL RETURN VALVE - UPPER
- H15 #2 STBD HOT OIL RETURN VALVE - LOWER
- H16 #2 STBD HOT OIL RETURN VALVE - UPPER
- H17 #3 STBD HOT OIL SUPPLY VALVE - UPPER
- H18 #3 STBD HOT OIL SUPPLY VALVE - LOWER
- H19 #3 PORT HOT OIL SUPPLY VALVE - UPPER
- H20 #3 PORT HOT OIL SUPPLY VALVE - LOWER
- H21 #3 PORT HOT OIL RETURN VALVE - UPPER
- H22 #3 PORT HOT OIL RETURN VALVE - LOWER
- H23 #3 STBD HOT OIL RETURN VALVE - UPPER
- H24 #3 STBD HOT OIL RETURN VALVE - LOWER
- H25 HOT OIL SUPPLY CONNECTION
- H26 HOT OIL RETURN CONNECTION
- H27 HOT OIL BY-PASS
- H28 HOT OIL SUPPLY VALVE
- H29 HOT OIL STRAINER ISOLATION VALVES
- H30 HOT OIL RETURN BLOCK VALVE
- H31 HOT OIL SUPPLY/RETURN BYPASS VALVE
- H32 HOT OIL BYPASS BLOCK VALVES

**VAPOR SYSTEM:**

- VP1 VAPOR STACK VALVE
- VP2 PRESS./VACUUM VALVES
- VP3 VENT STACK
- VP4 RAIN CAP
- VP5 VAPOR HEADER VALVE-STBD
- VP6 VAPOR HEADER VALVE-PORT

FWD  
**PLAN**  
 1/8" = 1'-0"

**TANK VOL. 100% FULL**

TANK	GAL.	BBL.	CU. FT.
1P	189,783	4519	25,370
1S	189,783	4519	25,370
2P	185,175	4409	24,754
2S	185,175	4409	24,754
3P	175,836	4187	23,506
3S	175,836	4187	23,506
TOTAL	1,101,586	26,228	147,261
		98% FULL	25,704

DRAFT (FT)	TOTAL (S.T.)	TANK NUMBER		
		1 P/S	2 P/S	3 P/S
2.5	169.70	60.68	59.42	49.60
3.0	405.38	143.22	139.74	122.42
3.5	641.96	225.82	222.08	194.06
4.0	879.40	310.12	303.40	265.88
4.5	1117.78	394.92	386.24	336.62
5.0	1357.00	481.14	468.32	407.54
5.5	1597.10	567.40	552.92	476.78
6.0	1837.90	654.14	638.26	545.50
6.5	2079.62	742.02	723.86	613.74
7.0	2322.24	830.82	809.72	681.70
7.5	2565.70	919.82	897.60	748.28
8.0	2810.04	1010.16	985.22	814.66
8.5	3055.24	1101.08	1074.10	880.06
9.0	3301.16	1193.28	1162.22	945.66
9.5	3548.00	1285.58	1252.60	1009.82
10.0	3795.72	1379.10	1343.50	1073.12
10.5	4044.28	1472.42	1436.66	1135.20
11.0	4293.68	1567.56	1528.56	1197.56
11.5	4542.28	1662.26	1621.90	1258.12
MAX CAPACITY - BBL (100%)				
	26,228	9037	8818	8373
MAX CAPACITY - CU. FT. (100%)				
	147,261	50741	49509	47012

\*VALUES FOR LEVEL TRIM WITH FUEL TANK AT 98% FULL

**SPECIAL FEATURES**

1. CARGO PUMP: BYRON JACKSON MODEL 12LS16GHC AMARILLO GEAR 1:1 RATIO 2800 GPM, 237" TDH @ 207 H.P.
2. CARGO PUMP ENGINE: CUMMINS 6 CTA 8.3 ENGINE

**BARGE INFORMATION**

HULL NO.	2180-3	2180-4	2180-5
NAME:	CBC 7035	CBC 7036	CBC 7037
OFF. #	1221251	1221252	1221253

YEAR BUILT: 2009  
 HULL TYPE: III  
 CARGO GRADE: B & LOWER  
 SUBCHAPTER "D" PRODUCTS

**Released for Production**

REV	ITEM	DESCRIPTION	DATE	BY
4		ADDED PUMPWELL DRAIN VALVE.	10/7/09	SDB
3		ADDED CAPACITIES, SPECIAL FEATURES & BARGE INFO.	9/29/08	SDB
2		UPDATED PER CUSTOMER CHANGES	9/08/09	KJA
1		REVISED PER PRE-CONSTRUCTION MEETING.	7/15/09	CVA

**TRINITY MARINE PRODUCTS, INC.**  
 CANAL BARGE COMPANY, INC.  
 297'-0" X 54'-0" X 12'-0" DOUBLE SKIN TANK BARGE

**PIPING DIAGRAM**

SCALE: 1/8" = 1'-0"	DATE: 6/9/09	DWG NO.
DRAWN BY: SDB	CK'D BY: CVA	APPR BY: P-01
YARD: MADISONVILLE	TAG NO. 38174A	SHT 1 OF 1
HULL NO. 2180-3,4,5	SHOP ORDER:	REV. 4