

user guide TPS Quality Management



**TERNPOINT.SOLUTIONS** 

# **TPS Quality Management**

TPS Quality Management is an extension that allows for the tracking of quality results and placing lots on hold. In addition, this extension can track the check in of tools, equipment calibration, USDA grade scoring, and composite sampling. When a lot is on hold, restrictions can be placed on which transactions can be performed on the lot, including picking, shipping, and consumption.

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#### LICENSING

A companion app to manage licensing is automatically installed with the first app that is installed from Ternpoint Solutions

- I. A new **Permissions Set** was added as part of the app install. **TPS LM LICENSE MGT.** Assign this permission sets to users in advance of use, on the **User Setup** card.
- 2. Extension Setup
  - a. Search for and open Extension Management.
  - b. Select Ternpoint License Management and open.
  - c. Ensure Allow HttpClient Requests is activated

Ternpoint Licens	se Management		
Group			
App ID	320dac76-d021-4827-a159-f37	Publisher	Tempoint Solutions LP
Name	Ternpoint License Management	Allow HttpClient Requ	

- 3. Ternpoint Product Registration
  - a. Search for and open Ternpoint Product Registration.
    - i. On this page all subscription type Ternpoint Solutions apps that have been installed are shown. Also from this page contacting Support, viewing your subscription status, creating a trial license, applying for an extension to your trial license or requesting a full one year license can be done.
    - ii. Enter appropriate Contact Info and select **Register** in the ribbon.
      - *I.* If registering the app in a separate company from one already purchased, ensure the same contact information is used across all Business Central companies to avoid a second monthly subscription fee. The license fee is per Business Central tenant,
    - iii. In the line section of the page select Create Trial License.
      - 1. A 30 day trial license will be created for evaluation purposes.
      - 2. If more time is needed to evaluate the app please select **Contact Support** for us to extend the trial license. After its extended select the line and click **Retrieve License**.
      - 3. In order to purchase a full license please select **Request Full License**.
      - 4. Email setup must be enabled in order to send emails requesting licenses or to contact support using the link.
    - iv. In order to uninstall the app, navigate to **Extension Management**, select the app and select **Uninstall** in the ribbon.

5	auc	)[]						
Retreive All Licenses	E Co	ontact Support More op	tions					
General								
Subscription ID	{6e98	ifb82-f704-4998-8b14-636	Cont	tact Info				
Environment	Prod	uction	First	Name	Kirk			
Registered · · · · · · · · ·		)	Last	Name · · · · · ·	South	ncott		
Registered On	9/20/	2023	E-Ma	tpder	tpdemo@tempoint.solutions			
Verify License for San		)	Phor	ne No.	310-5	525-6470		
			Cont	tact ID · · · · · · ·	{e61a	c350-ec0	5-4941-a4f7-9	6f0.
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Company > Applications Mar 3 <sup>th</sup> New Line € Cn 3 <sup>th</sup> Delete Line ® Re App Id → <u>16036113a-C9ad-435</u> . (d8577ee0-0739-419.	eate Tr set Lic	ial License 😥 Retrieve Li ense 🖃 Request Fr App Name Container Management Freshness Rules	Cont cense ull License Subscription Trial Trial	Subscription Status Active Active	Installed On 8/22/2023 3/27/2024	7:02 AM 9:47 AM	5-4941-a4f7-9 Le? Expires On 4/26/2024 9:5 4/27/2024 2:0	6f0.



#### QUALITY PERMISSIONS

I. Two new **Permissions Sets** were added as part of the app install. **TPS Quality Read**, **TPS Quality Edit**, and **TPS Quality Objects**. Assign these three permissions sets to users in advance of use, on the **User** card(s).

#### QUALITY SETUP

I. Search for and open Quality Setup and open the page.

Quality Setup	
General	
Quality Template Nos. · · ISHPT · Group Lots per Test · · · · ·	
Quality Test Nos.     I-PUT     Grade Attribute	$\sim$
Create Auto Quality T C	
Quality Admin Group	
Sample QA No. · · · · · · License Expiry Date · · · · ·	

- 2. There are one-time setups here for the number series to be used on templates, tests, and samples as well as the admin permission set, which controls who can approve **Quality Templates**.
- 3. Select/Create a Quality Admin Group then add appropriate users to it that are able to approve Quality Templates.
- 4. Auto Remove Lot Hold option determines whether the lot is removed from hold automatically on pass or whether this is controlled manually using the functions on the lot card.

#### QUALITY GROUPS

- I. Search for Quality Group and open the page.
- 2. Enter a Code and a Description.
- 3. Navigate to the **Items** that are part of this group and populate the **Quality Group** on the Item tab of the **Item Card** for each item in that group.
- 4. Default **Attributes** can also be setup on the group and can auto-populate when a new template is created, and the group assigned.

,  P Sea	rch + New	😥 Edit List	📋 Delete	Attri	butes	6 7	7 🔳	0
	Code 1				Description			
	BLUEBERRY				Blueberry			
	CRANBERRY				Cranberry			
	CUCUMBERS	5			Fresh Cucumbers			
	PICKLES				Pickles			
	RASPBERRY				Raspberry			
	SLEEVE				Sleeve			
	SPRIG				Sprig Items			
	TOPPER				Toppers			
$\rightarrow$	TTOOL			:	Tiger Tool			



#### QUALITY ATTRIBUTES

Quality Attributes are the types of tests that will be done when performing a Quality Test.

I. Search Quality Attributes and open the page.

arch 🕂 New 😨 Edit List 🔋 Delete 🥒 Edit 💿 V	iew 👍 Quality Attribute Values 🕞 Tr	ranslations = Attribute Formulae M	ore options			
Name †	Туре	Values	Blocked	Category Code	Sub Category Code	calc Formulae
BY-UndevelopedDamaged	Decimal	1		BY-DEFECTS	UNDEVELOPEDDAMAGED	
CalcScore	Integer	-				BB-PinkBrightRed+BB-Crushed BB-PinkBrightRed
CDS-BruisedTissueDamageMinor	Decimal			CDS-DEFECTS	BRUISEDTISSUEDAMAGEN	л
CDS-BruisedTissueDamageSerious	Decimal	<u> </u>		CDS-DEFECTS	BRUISEDTISSUEDAMAGES	E
CDS-CrushedMushyBroken	Decimal			CDS-CHARACTER	CRUSHEDMUSHYBROKEN	
CDS-Discoloration	Decimal			CDS-COLOR	DISCOLORATION	
CDS-Doubles	Decimal			CDS-SIZE	DOUBLES	
CDS-MoreThan1of16	Decimal	_		CDS-SIZE	MORETHAN1OF16IN	
CDS-MoreThan1of4	Decimal			CDS-SIZE	MORETHAN1OF4IN	
CDS-Pits	Decimal	20		CDS-DEFECTS	PITS	
CDS-SepalLikeBracts	Decimal	-		CDS-DEFECTS	SEPALLIKEBRACTS	
Clarity	Decimal					
Color	Option	Bright Red, Med Red, Dark Red,				
Color ok?	Boolean	Yes No.				

#### 2. Select New.

- 3. Enter a Name and select a data type in the Type field.
  - a. If **Option** is selected as the **Type**, then **Item Attribute Values** can be assigned by selecting the **Quality Attribute Values** option in the ribbon.

b. Note: a **Type** of **Boolean** is a yes/no or true/false.

- 4. You may want to associate the attribute to a **Category Code** and **Subcategory Code**, although this is only needed for grading type attributes.
- 5. Select normal as the **Calc Field Type** for an attribute where a user will enter a value or **Calculation** as a type for a value that is calculated from another attribute.
  - a. For example if the sample weight in KG is calculated from the user entering a sample weight in LB. A **Calc Formula** can be added to automatically calculate the KG attribute after the value in LB is entered.
  - b. To enter a **Calc Formula** select **Attribute Formula** in the ribbon.
  - c. Select the **Operater 1** Type as **Attribute**, then select the **Attribute Code** the user will enter into. Then select an **Operator** and then then **Operator 2** Type and value. Similar to the setup below.
    - i. Note a series of calculations can be added and a **Priority** noted to tell the system what sequence to perform the calculations.

9	Search + New	😥 Edit List	📋 Delete	More opt	tions			\$ 7 I
	Operator 1 Type	Operator 1	No.	Operator	Operator 2 Type	Operator 2 No.	Operator2	Priority
$\rightarrow$	Attribute :	BB-PinkBr	ightRed	+	Attribute	BB-Crushed		0
	Attribute	BB-PinkBr	ightRed	*	Constant	5		0

- 6. You may also block the attribute if it is no longer used by selecting the **Blocked** option.
- 7. Close the page when complete or select the + New option to add another.



#### QUALITY CATEGORIES AND SUBCATEGORIES

**Quality Categories and Subcategories** are only required if the attribute is to be used in a grade letter and numerical scoring process. The highest value recorded across all subcategories in a category is used for the grade of that category.

- I. Search for an open Quality Attribute Category.
- 2. Select the + to create a new record or open an existing record.
- 3. Enter a **Code**, **Description**, and a **Maximum Score** for the category.
  - a. Generally, USDA grading criteria is a total score of 100 across all categories.

Quality Attribute Category	Ø	Ŕ	+	Ŵ	√ Sav	red 🗖 🖉
BL-DEFECT	S					
	1. 200 million (200 million)					
Attribute Sub Category	More options					
General	More options					
General CodeBL-	More options		Maximum	Score		40

- 5. Select **Quality Attribute Subcategory** to create a new record or open and existing record.
- 6. Enter a Code, and Description. The Maximum score will populate from the Category Code.
- 7. For each Sub Category a range can be supplied in order to determine a grade and score.
- 8. Select Attribute Sub-Category Score in the ribbon.

Qualit	ty Attribute Sub Categor	ry o	Search + N	lew 💀	Edit List	📋 Delete		යි	Y	
	Colored and a second		Cada	ही Att	ribute Su	b-Category S	Score	Maria		
			CLUSTERS	Mo	ore option	15		Maxim	ium scor	ine in
7		:	CLUSTERS	-					4	10
	BL-DEFECTS		DAMAGED		Rot, W	rinkled, Toug	Jh Skin		4	40
	BL-DEFECTS		GREEN		Green				4	40
	BL-DEFECTS		MOLD		Moldy	and Rotten			.4	40
	BL-DEFECTS		STEMSLEAV	ES	Stems	and Leaves			4	40
	BL-DEFECTS		WORMS		Worms and Insects				4	40
	BL-DEFECTS		BUGS		Bugs				4	40

9. Select Attribute Sub-Category Score in the ribbon.

10. Enter an Upper, Lower, Score, and Grade. Note that the maximum score is that of the category.



9	Search + New	Ed	lit List 📋 Delete	More options			16 7 ≣
	Category Code †		Code † 🝸	Lower Limit	Upper Limit	Score	Grade
>	BL-DEFECTS		CLUSTERS	0	0	40	A
	BL-DEFECTS		CLUSTERS	1	2	39	A
	BL-DEFECTS		CLUSTERS	3	4	38	A
	BL-DEFECTS		CLUSTERS	5	6	37	A
	BL-DEFECTS		CLUSTERS	7	8	36	A
	BL-DEFECTS		CLUSTERS	9	10	35	В
	BL-DEFECTS		CLUSTERS	11	12	34	В
	BL-DEFECTS		CLUSTERS	13	14	33	В
	BL-DEFECTS		CLUSTERS	15	16	32	В
	BL-DEFECTS		CLUSTERS	17	500	31	SSTD

II. Close all windows and repeat to setup additional records.

#### QUALITY GRADES

Quality Grades are the USDA grades that a product can have.

- 1. Search for and open **Quality Grades** (or drill down from the subcategory score page).
- 2. Enter a Code, Description, Value, and if desired a Color Code.
  - a. Note the **Value** is used to determine which grade is selected as the overall grade across categories. The lower the **Value** the higher value of importance. For example, if one category is assessed a **Grade** of A and one **Grade** of B the overall grade for the test will be B in the setup below.

ualit	y Grades					ď	2
0 9	Search 🕂 New 👿	Edit List	Delete More options		Ŕ	$\nabla$	-
	Code †		Description	Value	Color Code		
$\rightarrow$	A	;	A	4	Green		
	В		В	3	Yellow		
	С		с	2	Blue		
	SSTD		SubStandard	1	Red		



#### QUALITY TEMPLATES

**Quality Templates** are the types of tests that may be performed on a day-to-day basis. The template consists of a header and a series of **Quality Attributes** which will have values recorded at the time of testing.

I.Search for Quality Templates and open the page.

- 2. Select the + sign to add a new record or **Reopen** function to edit and existing record.
- 3. Tab off the No. field to assign a new number from the No. Series noted in the Quality Setup.
- 4. Enter a **Description** for the template.
- 5. Select an Applies To value:
  - a. If the template is related to an inventory transaction, then Lot would be selected.
  - b. If the template is related to an inbound truck inspection for a receipt, then Warehouse Receipt would be selected.
  - c. If the template is related to an inbound truck inspection for a shipment, then **Warehouse Shipment** would be selected.
  - d. If the template is related to a production job, but not specifically to the item, then **Production Order** would be selected.
  - e. If the template is related to an **Environmental** audit such as sampling drains or checking pest control devices, then **Environmental** would be selected.
  - f. A Machine or Work Center would be used to track post sanitation equipment sampling or metal detector validations.
  - g. Resources would be used for Tool Check In. See section below for the Tool Check In process.
  - h. If the template will be created from a Purchase Order then select that option.
- 6. If the Quality Template is applicable to a subset of Items, select a Quality Group.
  - a. Note the **Quality Group** should be specific on the item.
- 7. Select a Hold Reason Code if the Lot should go on hold if the related Quality Test fails.
  - a. Related to the **Hold Reason Code** are fields restricting the type of transaction that is prohibited when the Lot is on hold for that reason.
    - b. A Hold Reason Code is also available on the Item Card. Each new lot that is created is placed on hold for this reason.

Sele	ct - Lot Reason	Code	List   𝒫 ∨ + New ■ Edit List …			2
	Lot Reason Code 🕈		Description	Stop Shiping	Stop Pick	Stop Consumpt.
$\rightarrow$	INCOMING	;	Hold for QA Incoming Inspection/release			
	MICRO		Hod for Micro results	2		5
	QA RELEASE		Hold for QA Inspection/release		12	53

- 8. For templates related to **Composite Samples**, select **Lot** as the **Type**, and enter a **Minimum Sample Size** if appropriate.
- 9. If the template is for USDA grading where a score and letter grade will be calculated select Grading Type.
- 10. If the template is the default template that should be automatically created for that **Quality Group** when a lot is created, select **Default**.
- II. Select Attributes in the lines from the list on each line.
- 12. Enter a default **Value** if appropriate.
- Enter an Upper and Lower Limit for that attribute if required (this feature can only be used in decimal or integer Type values).
  - a. If the attribute is a decimal or integer, the system first validates the **Upper** and **Lower Limit** range for the pass/fail check. If there is no **Upper** or **Lower Limit**, then the system will look to the **Value** to see if the result matches. If both are blank, the test is informational, and any value will pass.



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DTEM00012 · Bluebe	erry Grading			0							
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Approve Schable Schopen	Automate V Pewer options										
Seneral											
lo	QTEM00012	Defa	ıt			Approved		D			
escription	Blueberry Grading	Enab	ed			Hold Reason Code					
pplies To	Lot	✓ Date	Created	4/15/2024		Minimum sample size					(
uality Group	RUIERERRY	Creat	ed By	KSOUTHCOTT		Grading Type					
	0000000										
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- 14. Enter a **Dependent Attribute Name** if the results of the **Attribute** line selected determine the value of another **Attribute** on the template.
  - a. Select **Add Attribute Range** in the line ribbon to determine the value of the **Dependent Attribute** based on the result of the test.
    - i. In this example the **Grade** is A if the burn value is between 1 and 3.
    - ii. Ensure the **Upper** and **Lower Limits** on the template encompass the full range of values possible in the dependencies (i.e. 1-9 below).

9	Search + New	🐯 Edit List	Û	Delete	More options		18 ≣
	Value			Lower Lin	nit	Upper Limit	Dependent attribute Name
>	A		:	1		3	Rotten
	В			4		9	Rotten

15. A value on all lines is considered mandatory to pass the test unless the **Not Mandatory** box is checked on the line.

16. When complete select Approve and Enable to start using the Quality Template

- a. To edit select Reopen.
- 17. Close the page and return to the main menu.

18. A Copy option has been added to duplicate a Quality Template to a new template.



#### LOT HOLDS AND HOLD RELEASES

On the Lot No. Information Card functions have been added to place a lot on hold and release a lot from hold, with appropriate reasons to select from. When placing a lot on hold a comment can be added, also when releasing a lot from hold a comment can be added. The date and user id of the user releasing from hold is recorded. In order to track changes, ensure change log is activated for these fields.

Home Lot No. More option						
🔯 Find entries 🖶 Print Label	🕏 Create Quality Test 🛛 👼 Quality Tests	🔮 Lot Av	ailability By Location 🛛 🕃 Release Hold	Apply Hold		
General						
Item No.	HOUSING1	$\sim$	Certificate Number		Hold Release Reason Comment	Results received, passed Micros
Variant Code		$\sim$	Blocked		Hold Released By	KSOUTHCOTT
Lot No.	012424		Hold Reason Code		Hold Released Date	11/6/2024
Description			Hold Reason Comment	Pending Micro Results from Lab	Quality Test Status	Open

#### RESOURCES

Resources are used as the Business Central setup for Tools and Equipment.

- I. Search for **Resources** and open the page.
- 2. Click New to create a new Resource.
- 3. Enter a Code and a Name.
- 4. Select Machine as the Type and EA as the Base Unit of Measure.

a. Resources have many fields but other than the fields listed above the remainder can be left blank.

5. If a **Resource** is lost or disposed of, open the related **Resource** card, and mark the **Resource** as **Blocked** to prevent further use.

		2.0	
DIGTHERM9683 · D	igital Thermometer Ser 96	83	
Process Resource Report Mc	are options		
General			
No	DIGTHERM9683	Search Name	DIGITAL THERMOMETER SER 9683
	Digital Thermometer Ser 9683	Resource Group No.	TOOL V
Name			
Name Type	Machine $\vee$	Blocked	
Name [ Type [ Base Unit of Measure [	Machine V EA V	Blocked	8/3/2022

#### CHANGE LOG SETUP

- I. The setup of the **Change Log** is required to track changes to Values recorded on **Quality Test Lines**, ensuring compliance with regulations.
- 2. A document on how to set up the **Change Log** can be found here.
- a. https://docs.microsoft.com/en-us/dynamics365/business-central/across-log-changes
- 3. Ensure Modify tracking flag is used on the Quality Test Line table for at least the Value field.



# **Processing Audits**

#### CREATE QUALITY TESTS FROM A RECORD

- I. From the relevant area of the system that was noted on the **Applies To** field of the template (**Warehouse Shipment**, **Warehouse Receipt**, **Lot**, **Production Order** etc) select **Create Quality Test** in the ribbon of the relevant page.
- 2. The look up list of available **Templates** will be filtered to that **Type** of record. In the case of a **Quality Test** initiated from a **Lot**, the list may be further filtered by the **Quality Group** on the **Item**.
- 3. The **Sample Size** will default to 1. If a larger sample weight is sampled then adjust and the values entered will be divided by this size.
- 4. Enter the test result values into the **Value** field on each attribute line.

Quality Test									<ul> <li>e</li> </ul>	+ 0	1					√Sa	aved 🖬
IPU000	023								<u> </u>								
🖵 Validate	📓 Get Lines	0 <mark>6</mark> Cha	inge Log Entries 🛛 🔹 Update	Grade Score	Automate $\lor$ Fewer	options											
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No			IPU000023			Item	No		HOUSIN	IG1				Tool Status			
Description · ·			inline audit			Statu	5		Pass					Sample Size			2.0
Applies To			Lot			Com	ment ·····							Approver ID			
Source No.			011224-1			Date	Created · · · · · ·		4/8/202	5				Approved On			
Quality Group			COFFEE		~	Crea	ted By		AMITTA	L				Inspector ID			
Lot No.			011224-1		~	Days	Created						6	Inspected On			
						Hold	Reason Code		HOLD T	EST							
Lines 🛛 🦻	Celete Line	Creat	e Test														e e
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$\rightarrow$	1 01122	F-1 (	Clean	Boolean	Yes			Pass				0	0		AMITTAL	9:34:51 PM	4/8/2025

- 5. Validations will be performed as the user moves from one line to another.
- 6. Lines that have failed will indicate a reason for failure and be noted in red.
- 7. If multiple tests are performed over time or multiple samples are tested, then the **Create Test** function in the lines ribbon can be used to create a duplicate set of lines for recording results.
  - a. This can also be used for grading where a grade is calculated per set of tests. Note there is currently no roll up across all samples to calculate an overall grade for the entire QA test.
- 8. If a Hold Reason Code is indicated from the Quality Template, the associated Lot will be placed on hold for this reason.
- 9. In the ribbon there is a link to view the **Change Log Entries**. See **Change Log Setup** area of this document on steps to track changes.
- 10. Days Created displays how many <u>full</u> days the Quality Test has been open.
- II. Exit the **Quality Test** page when complete.

#### MANUAL CREATION OF A QUALITY TEST

- I. Search for Quality Tests and open the page.
- 2. Select New.
- 3. Enter a **Description**.
- 4. Enter a Source No.
- 5. Adjust **Sample Size**, if appropriate.
- 6. In the ribbon select **Get Lines** to populate the lines with attributes from the template.
  - a. If a list opens, select the appropriate template.
- 7. Enter test results into the **Value** field on each attribute line.
- 8. Lines that have failed will be indicated with a reason for failure.
- 9. If multiple tests are performed over time or multiple samples are tested, then the **Create Test** function in the lines ribbon can be used to create a duplicate set of lines for recording results.
  - a. This can also be used for grading where a grade is calculated per set of tests. Note there is currently no roll up across all samples to calculate an overall grade for the entire QA test.
- 10. If a Hold Reason Code is indicated from the Quality Template the Lot will be placed on hold for this reason.
- II. In the ribbon there is a link to view the Change Log Entries. See Change Log Setup area of this document on steps to track changes.
- 12. Exit the Quality Test page when complete.

#### DEVICE CALIBRATION

- 1. For Manual Quality Test Creation follow the steps above.
- 2. Before beginning, ensure that the device is set up as a **Resource** in the system (see **Resource** setup above) or a **Machine Center** or **Work Center**. For implementations not using **Routings** a **Resource** is recommended.

#### TOOL CHECK IN

- I. Search for Tool Check In/Out and open the page.
- 2. Select the desired Tool (resource) from the list and select **Check In** or **Check Out** from the ribbon. Note a tool cannot be checked back out if its already checked out

	18 7 ≡
No.† Name	
DIGTHERM9683 Digital Thermometer Ser 9683	

- 3. Enter/Scan your Employee No. and press OK.
- 4. Open the **Quality Test** by selecting **Yes** or Select **No** to complete check in.

Tool Check In Process		~ ×
Employee No.		
Filter: Integer		
+ Filter		
	ОК	Cancel



#### COMPOSITE SAMPLING

**Composite Samples** are used when a small qty of product is taken at regular intervals on a production line then combined together in a larger sample and then tested.

- I. Search for Composite Sample List and select New.
- 2. Tab off the No. field to assign a new number from the No. Series setup on the Quality Setup page.
- 3. Enter an Item No. and if required a Lot No. and Production Order.
  - a. If a **Lot No**. and **Production Order** are selected in the header, they will default into the lines but can be overwritten if needed. If left blank, the values can be populated on each line.
- 4. Enter samples in the lines by entering a Quantity (and Lot No. and Production Order if not defaulted from the header).
- 5. Select a Unit of Measure for the sample.
- 6. The **Total Quantity** is calculated in the header as lines are entered.
- 7. Select Release when ready to test the sample, followed by Create Quality Test.
- 8. A warning will appear asking if the user wants to continue if the **Total Quantity** is less than the **Minimum Sample Size** on the associated **Quality Template.**
- 9. Enter the line Values as required.
- 10. Since multiple Lots could be on a Composite Sample no hold is placed should the sample fail.

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Ge	eral					
No	CSAM1000	1436	Lot No.	LN	000023	~
Iter	No. IQFBLUE50	ILB V	Production Orde	er ·····		~
Iter	Description IQF Grade	A Organic Blueberries	Total Quantity			12.0
Qu	ty Group BLUEBERRY	(	Status	Op	en	
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Qu Lin	ty Group BLUEBERRY Manage iample ID 1 Lot No. <u>CSAM1000</u> I LN000023	Quantity Proc Ord 8.00	Status Created By luction ar Unit of Mea G	op KS	DUTHCOTT Date Created 8/2/2023	Ime Created 2:44:49 Pi