GENERAL MOTORS

GUIDELINE APPENDIX
FOR
DESADV MESSAGE

DELIVERY DESPATCH ADVICE MESSAGE
D.97A
Version 4.2

General Motors Assembly and Component Plants
Direct Material

Contents

Additional Packaging Information:

Consignment Packaging Sequence (CPS) Segment

The CPS loop is used to capture the relationship between each tare (pallet, lift, etc.), container and part number in the DESADV. A tare is considered one pallet or lift. A tare may be presented as:

1. MASTER TARE: A pallet or lift with multiple containers, boxes, or totes each containing the same parts. This tare will be represented by a GM1724B (master) label with individual containers each having an affixed GM1724A (container) labels. Each container, box, and tote associated with the master tare will have its own proceeding CPS loop.

2. MIXED TARE: A pallet or lift with multiple containers, boxes, or totes containing different parts. This tare will be represented by a GM1724C (mixed) label with individual containers each having an affixed GM1724A (container) labels. Each container, box, and tote associated with the master tare will have its own proceeding CPS loop.

3. CONTAINER AS A PALLET: A large container or rack that contains one part number stacked in layers or arranged in another configuration. The entire tare is represented by a GM1724A (container) label. There are no additional GM1724 labeled containers, boxes, or totes. For this use case, there will be a tare level CPS loop in addition to one proceeding CPS loop that contains part-level information.

Package (PAC) Segment

GM Plants require Container IDs for all returnable and expendable containers. Supplier expendable packaging claims or reimbursement will be denied if not transmitted accurately in the DESADV.

When an expendable container is used in place of a returnable container, the following expendable codes will be used:

0000PALT - Pallets (Expendable)
0000CART - Totes (Expendable)
0000PCTN - Plastic Knockdowns and Metal Bins (Expendable)
0000COVR - Cover/Lids (Expendable)

Suppliers shipping in returnable containers must use accurate packaging part numbers as provided by GM.

When multiple parts/containers are combined on one pallet, build the DESADV so that the pallet is reported in the first CPS / part loop.

CONTAINER AS A PALLET: The tare-level PAC02 within the CPS loop should indicate the primary container number quantity as 0. The PAC02 within the container-level CPS loop must indicate the actual primary container quantity as the actual count. See appendix for examples.

Label Definitions and Examples:

Formal specs for the GM1724 labels can be found on GM Supply Power. The following labels have been extracted directly from the available specs and further anonymized for use with the below shipment examples.

GM1724A – Container / Container as a Pallet Label

GM1724B – Master Tare Label

GM1724C – Mixed Tare Label

Additional Standards Information:

Country of Origin

The Alpha-2 code per the ISO 3166 standards is the required value within the Country of Origin segment (Segment Group 15, ALI – Additional Information, data element 3239) of the DESADV. You may use the following link, https://www.iso.org/obp/ui/#search, to search the ISO online browsing platform for the value associated with a given country.

DESADV Data Validation Failure Scenarios

The following scenarios will result in either a CONTRL or APERAK message being transmitted back to the supplier based on data validation failures:

- Not providing data for elements that are listed as mandatory.
- Breaching the specified character limit for a given data element.
- Defining invalid qualifiers for a given data element.
- The use of special characters (!@#$%^&*(),etc.)
- The use of lowercase letters.

Header / Trailer Example:

The header and trailer information remains the same as previous versions of the GM DESADV guidelines. The following example can be considered the header and trailer for all the following shipment examples with corresponding CPS Loops. All fields are mandatory unless otherwise noted as (optional).

UNB+UNOA:2+XXX:ZZ+GMGLBACPB:ZZ+980305:1600+1234++GMDESADV'	New Sender Code - GMGLBACPB
UNH+1+DESADV:D:97A:UN'	
BGM+351+12345678+9'	Shipment Identification (SID)
DTM+137:202402051400:203'	DESADV creation date and time
DTM+11:202402051500:203'	Shipment date and time
DTM+132:202402071000:203'	Arrival date and time (optional)
MEA+AAX+G+KGM:354'	Shipment gross weight
MEA+AAX+N+KGM:354'	Shipment net weight
MEA+AAX+SQ+C62:1'	Total number of lading units
RFF+CN:81982333'	3PL reference ID
RFF+MB:879823876'	Master bill of lading number (optional)
NAD+MI+88120::92'	Material Issuer
NAD+ST+19087::92'	GM ship-to location
LOC+11+15C'	GM dock code
NAD+SU+123456789::16'	Supplier DUNS number
TDT+12++M++MRLC::182'	Shipment mode code and SCAC code
EQD+TE+ABC123456'	Trailer number
SEL+14445'	Seal number (optional)
………….	Used to depict CPS Loop(s)
UNT+35+1'	Message enveloping: segment count verification
UNZ+1+1234'	Message enveloping

Shipment Examples with Corresponding CPS Loops:

Example 1 – Expendable Packaging / Master Tare:

Supplier sourced to use expendable containers for one part number on an expendable pallet with an expendable lid / cover.

Scenario: 600 pieces of part number 12345678 are shipped in 6 containers (ID# 0000CART). The standard pack for each container being 100 pieces. The 6 containers are loaded on a pallet (ID# 0000PALT) with a lid / cover (ID# 0000COVR) to protect the upper layer.

CPS+1++3'	Tare CPS Loop Note: CPS02 not populated
PAC+1++0000PALT'	Expendable Pallet Identifier
PAC+1++0000COVR'	Expendable Lid Identifier
PCI+17'	
GIR+3+UN123456789A2B4C6D8E:ML'	Tare Serial Number / LPN - 1724B (Master Label)
CPS+2+1+1'	FIRST Container: CPS02 being populated indicates the child containers association to its parent tare
PAC+1++0000CART'	Expendable Container Identifier
MEA+AAX+G+KGM:10'	Gross Weight of the Individual Container - GM 1724A (Container Label)
PCI+17'	
DTM+94:20240211:102'	FIFO / Manufactured Date - GM1724A
DTM+36:20241101:102'	Expiration Date (if applicable) - GM1724A
GIR+3+UN123456789A2B4C6D8F:AW'	Container Serial Number GM1724A
LIN+++12345678:IN'	Part Number - GM1724A
QTY+12:100:C62'	Dispatch Quantity / Quantity Shipped - GM1724A

QTY+3:3000:C62'	Cumulative Quantity
QTY+52:100:C62'	Standard Pack Quantity
ALI+US'	Country of Origin
RFF+ON:G1155'	Purchase Order Number
CPS+3+1+1'	Second Container: CPS02 being populated indicates the child containers association to its parent tare
PAC+1++0000CART'	Expendable Container Identifier
MEA+AAX+G+KGM:10'	Gross Weight of the Individual Container - GM 1724A (Container Label)
PCI+17'	
DTM+94:20240211:102'	FIFO / Manufactured Date - GM1724A
DTM+36:20241101:102'	Expiration Date (if applicable) - GM1724A
GIR+3+UN123456789A2B4C6D8G:AW'	Container Serial Number GM1724A
LIN+++12345678:IN'	Part Number - GM1724A
QTY+12:100:C62'	Dispatch Quantity / Quantity Shipped - GM1724A
QTY+3:3000:C62'	Cumulative Quantity
QTY+52:100:C62'	Standard Pack Quantity
ALI+US'	Country of Origin
RFF+ON:G1155'	Purchase Order Number
CPS+4+1+1'	Third Container: CPS02 being populated indicates the child containers association to its parent tare
PAC+1++0000CART'	Expendable Container Identifier
MEA+AAX+G+KGM:10'	Gross Weight of the Individual Container - GM 1724A (Container Label)
PCI+17'	
DTM+94:20240211:102'	FIFO / Manufactured Date - GM1724A
DTM+36:20241101:102'	Expiration Date (if applicable) - GM1724A
GIR+3+UN123456789A2B4C6D8H:AW'	Container Serial Number GM1724A
LIN+++12345678:IN'	Part Number - GM1724A
QTY+12:100:C62'	Dispatch Quantity / Quantity Shipped - GM1724A
QTY+3:3000:C62'	Cumulative Quantity
QTY+52:100:C62'	Standard Pack Quantity
ALI+US'	Country of Origin
RFF+ON:G1155'	Purchase Order Number
CPS+5+1+1'	Fourth Container: CPS02 being populated indicates the child containers association to its parent tare
PAC+1++0000CART'	Expendable Container Identifier
MEA+AAX+G+KGM:10'	Gross Weight of the Individual Container - GM 1724A (Container Label)
PCI+17'	
DTM+94:20240211:102'	FIFO / Manufactured Date - GM1724A
DTM+36:20241101:102'	Expiration Date (if applicable) - GM1724A
GIR+3+UN123456789A2B4C6D8I:AW'	Container Serial Number GM1724A
LIN+++12345678:IN'	Part Number - GM1724A
QTY+12:100:C62'	Dispatch Quantity / Quantity Shipped - GM1724A
QTY+3:3000:C62'	Cumulative Quantity
QTY+52:100:C62'	Standard Pack Quantity
ALI+US'	Country of Origin
RFF+ON:G1155'	Purchase Order Number
CPS+6+1+1'	Fifth Container: CPS02 being populated indicates the child containers association to its parent tare

PAC+1++0000CART'	Expendable Container Identifier
MEA+AAX+G+KGM:10'	Gross Weight of the Individual Container - GM 1724A (Container Label)
PCI+17'	
DTM+94:20240211:102'	FIFO / Manufactured Date - GM1724A
DTM+36:20241101:102'	Expiration Date (if applicable) - GM1724A
GIR+3+UN123456789A2B4C6D8J:AW'	Container Serial Number GM1724A
LIN+++12345678:IN'	Part Number - GM1724A
QTY+12:100:C62'	Dispatch Quantity / Quantity Shipped - GM1724A
QTY+3:3000:C62'	Cumulative Quantity
QTY+52:100:C62'	Standard Pack Quantity
ALI+US'	Country of Origin
RFF+ON:G1155'	Purchase Order Number
CPS+7+1+1'	Sixth Container: CPS02 being populated indicates the child containers association to its parent tare
PAC+1++0000CART'	Expendable Container Identifier
MEA+AAX+G+KGM:10'	Gross Weight of the Individual Container - GM 1724A (Container Label)
PCI+17'	
DTM+94:202402811:102'	FIFO / Manufactured Date - GM1724A
DTM+36:20241101:102'	Expiration Date (if applicable) - GM1724A
GIR+3+UN123456789A2B4C6D8K:AW'	Container Serial Number GM1724A
LIN+++12345678:IN'	Part Number - GM1724A
QTY+12:100:C62'	Dispatch Quantity / Quantity Shipped - GM1724A
QTY+3:3000:C62'	Cumulative Quantity
QTY+52:100:C62'	Standard Pack Quantity
ALI+US'	Country of Origin
RFF+ON:G1155'	Purchase Order Number

Example 2 – Expendable Packaging / Mixed Tare:

Supplier sourced to use expendable containers for multiple part numbers on an expendable pallet with an expendable lid / cover.

Scenario: 300 pieces of part number 12345678 are shipped in 3 containers (ID# 0000CART) and 300 pieces of part number 22345678 are shipped in 3 containers (ID# 0000CART). The standard pack for each part number / container being 100 pieces. The 6 containers are loaded on a pallet (ID# 0000PALT) with a lid / cover (ID# 0000COVR) to protect the upper layer.

CPS+1++3'	Tare CPS Loop Note: CPS02 not populated
PAC+1++0000PALT'	Expendable Pallet Identifier
PAC+1++0000COVR'	Expendable Lid Identifier
PCI+17'	
GIR+3+UN123456789A2B4C6D8E:ML'	Tare Serial Number / LPN – 1724C (Mixed Label)
CPS+2+1+1'	FIRST Container: CPS02 being populated indicates the child containers association to its parent tare
PAC+1++0000CART'	Expendable Container Identifier
MEA+AAX+G+KGM:10'	Gross Weight of the Individual Container - GM 1724A (Container Label)
PCI+17'	
DTM+94:20240211:102'	FIFO / Manufactured Date - GM1724A
DTM+36:20241101:102'	Expiration Date (if applicable) - GM1724A
GIR+3+UN123456789A2B4C6D8F:AW'	Container Serial Number GM1724A
LIN+++12345678:IN'	Part Number - GM1724A
QTY+12:100:C62'	Dispatch Quantity / Quantity Shipped - GM1724A
QTY+3:3000:C62'	Cumulative Quantity
QTY+52:100:C62'	Standard Pack Quantity
ALI+US'	Country of Origin

RFF+ON:G1155'	Purchase Order Number
CPS+3+1+1'	Second Container: CPS02 being populated indicates the child containers association to its parent tare
PAC+1++0000CART'	Expendable Container Identifier
MEA+AAX+G+KGM:10'	Gross Weight of the Individual Container - GM 1724A (Container Label)
PCI+17'	
DTM+94:20240211:102'	FIFO / Manufactured Date - GM1724A
DTM+36:20241101:102'	Expiration Date (if applicable) - GM1724A
GIR+3+UN123456789A2B4C6D8G:AW'	Container Serial Number GM1724A
LIN+++12345678:IN'	Part Number - GM1724A
QTY+12:100:C62'	Dispatch Quantity / Quantity Shipped - GM1724A
QTY+3:3000:C62'	Cumulative Quantity
QTY+52:100:C62'	Standard Pack Quantity
ALI+US'	Country of Origin
RFF+ON:G1155'	Purchase Order Number
CPS+4+1+1'	Third Container: CPS02 being populated indicates the child containers association to its parent tare
PAC+1++0000CART'	Expendable Container Identifier
MEA+AAX+G+KGM:10'	Gross Weight of the Individual Container - GM 1724A (Container Label)
PCI+17'	
DTM+94:20240211:102'	FIFO / Manufactured Date - GM1724A
DTM+36:20241101:102'	Expiration Date (if applicable) - GM1724A
GIR+3+UN123456789A2B4C6D8H:AW'	Container Serial Number GM1724A
LIN+++12345678:IN'	Part Number - GM1724A
QTY+12:100:C62'	Dispatch Quantity / Quantity Shipped - GM1724A
QTY+3:3000:C62'	Cumulative Quantity
QTY+52:100:C62'	Standard Pack Quantity
ALI+US'	Country of Origin
RFF+ON:G1155'	Purchase Order Number
CPS+5+1+1'	Fourth Container: CPS02 being populated indicates the child containers association to its parent tare
PAC+1++0000CART'	Expendable Container Identifier
MEA+AAX+G+KGM:10'	Gross Weight of the Individual Container - GM 1724A (Container Label)
PCI+17'	
DTM+94:20240211:102'	FIFO / Manufactured Date - GM1724A
DTM+36:20241101:102'	Expiration Date (if applicable) - GM1724A
GIR+3+UN123456789A2B4C6D8I:AW'	Container Serial Number GM1724A
LIN+++22345678:IN'	Part Number - GM1724A
QTY+12:100:C62'	Dispatch Quantity / Quantity Shipped - GM1724A
QTY+3:3000:C62'	Cumulative Quantity
QTY+52:100:C62'	Standard Pack Quantity
ALI+US'	Country of Origin
RFF+ON:G1155'	Purchase Order Number
CPS+6+1+1'	Fifth Container: CPS02 being populated indicates the child containers association to its parent tare
PAC+1++0000CART'	Expendable Container Identifier
MEA+AAX+G+KGM:10'	Gross Weight of the Individual Container - GM 1724A (Container Label)

PCI+17'	
DTM+94:202402811:102'	FIFO / Manufactured Date - GM1724A
DTM+36:20241101:102'	Expiration Date (if applicable) - GM1724A
GIR+3+UN123456789A2B4C6D8J:AW'	Container Serial Number GM1724A
LIN+++22345678:IN'	Part Number - GM1724A
QTY+12:100:C62'	Dispatch Quantity / Quantity Shipped - GM1724A
QTY+3:3000:C62'	Cumulative Quantity
QTY+52:100:C62'	Standard Pack Quantity
ALI+US'	Country of Origin
RFF+ON:G1155'	Purchase Order Number
CPS+7+1+1'	Sixth Container: CPS02 being populated indicates the child containers association to its parent tare
PAC+1++0000CART'	Expendable Container Identifier
MEA+AAX+G+KGM:10'	Gross Weight of the Individual Container - GM 1724A (Container Label)
PCI+17'	
DTM+94:202402811:102'	FIFO / Manufactured Date - GM1724A
DTM+36:20241101:102'	Expiration Date (if applicable) - GM1724A
GIR+3+UN123456789A2B4C6D8K:AW'	Container Serial Number GM1724A
LIN+++22345678:IN'	Part Number - GM1724A
QTY+12:100:C62'	Dispatch Quantity / Quantity Shipped - GM1724A
QTY+3:3000:C62'	Cumulative Quantity
QTY+52:100:C62'	Standard Pack Quantity
ALI+US'	Country of Origin
RFF+ON:G1155'	Purchase Order Number

Example 3 – Expendable Packaging / Multiple Master Tares:

Supplier sourced to use expendable containers for one part number on multiple expendable pallets with multiple expendable lids / covers.

Scenario: 1200 pieces of part number 12345678 are shipped in 12 containers (ID# 0000CART). The standard pack for each container being 100 pieces. The 12 containers are loaded 2 containers per pallet (ID# 0000PALT) and each pallet with a lid / cover (ID# 0000COVR) to protect the upper layer.

CPS+1++3'	First Tare CPS Loop
	Note: CPS02 not populated
PAC+1++0000PALT'	Expendable Pallet Identifier
PAC+1++0000COVR'	Expendable Lid Identifier
PCI+17'	

GIR+3+UN123456789A2B4C6D8E:ML'	Tare Serial Number / LPN - 1724B (Master Label)
CPS+2+1+1'	First Container, First Tare: CPS02 being populated indicates the child container association to its parent tare
PAC+1++0000CART'	Expendable Container Identifier
MEA+AAX+G+KGM:10'	Gross Weight of the Individual Container - GM 1724A (Container Label)
PCI+17'	
DTM+94:20240211:102'	FIFO / Manufactured Date - GM1724A
DTM+36:20241101:102'	Expiration Date (if applicable) - GM1724A
GIR+3+UN123456789A2B4C6D8F:AW'	Container Serial Number GM1724A
LIN+++12345678:IN'	Part Number - GM1724A
QTY+12:100:C62'	Dispatch Quantity / Quantity Shipped - GM1724A
QTY+3:3000:C62'	Cumulative Quantity
QTY+52:100:C62'	Standard Pack Quantity
ALI+US'	Country of Origin
RFF+ON:G1155'	Purchase Order Number
CPS+3+1+1'	Second Container, First Tare: CPS02 being populated indicates the child container association to its parent tare
PAC+1++0000CART'	Expendable Container Identifier
MEA+AAX+G+KGM:10'	Gross Weight of the Individual Container - GM 1724A (Container Label)
PCI+17'	
DTM+94:20240211:102'	FIFO / Manufactured Date - GM1724A
DTM+36:20241101:102'	Expiration Date (if applicable) - GM1724A
GIR+3+UN123456789A2B4C6D8G:AW'	Container Serial Number GM1724A
LIN+++12345678:IN'	Part Number - GM1724A
QTY+12:100:C62'	Dispatch Quantity / Quantity Shipped - GM1724A
QTY+3:3000:C62'	Cumulative Quantity
QTY+52:100:C62'	Standard Pack Quantity
ALI+US'	Country of Origin
RFF+ON:G1155'	Purchase Order Number
………….	CPS+4, 5, 6 skipped
CPS+7+1+1'	Sixth Container, First Tare: CPS02 being populated indicates the child container association to its parent tare
PAC+1++0000CART'	Expendable Container Identifier
MEA+AAX+G+KGM:10'	Gross Weight of the Individual Container - GM 1724A (Container Label)
PCI+17'	
DTM+94:20240211:102'	FIFO / Manufactured Date - GM1724A
DTM+36:20241101:102'	Expiration Date (if applicable) - GM1724A
GIR+3+UN123456789A2B4C6D8K:AW'	Container Serial Number GM1724A
LIN+++12345678:IN'	Part Number - GM1724A
QTY+12:100:C62'	Dispatch Quantity / Quantity Shipped - GM1724A
QTY+3:3000:C62'	Cumulative Quantity
QTY+52:100:C62'	Standard Pack Quantity
ALI+US'	Country of Origin
RFF+ON:G1155'	Purchase Order Number
CPS+8++3'	Second Tare CPS Loop Note: CPS02 not populated
PAC+1++0000PALT'	Expendable Pallet Identifier
PAC+1++0000COVR'	Expendable Lid Identifier

PCI+17'	
GIR+3+UN123456789A2B4C6D8L:ML'	Second Tare Serial Number / LPN - 1724B (Master Label)
CPS+9+8+1'	First Container, Second Tare: CPS02 being populated indicates the child container association to its parent tare
PAC+1++0000CART'	Expendable Container Identifier
MEA+AAX+G+KGM:10'	Gross Weight of the Individual Container - GM 1724A (Container Label)
PCI+17'	
DTM+94:20240211:102'	FIFO / Manufactured Date - GM1724A
DTM+36:20241101:102'	Expiration Date (if applicable) - GM1724A
GIR+3+UN123456789A2B4C6D8M:AW'	Container Serial Number GM1724A
LIN+++12345678:IN'	Part Number - GM1724A
QTY+12:100:C62'	Dispatch Quantity / Quantity Shipped - GM1724A
QTY+3:3000:C62'	Cumulative Quantity
QTY+52:100:C62'	Standard Pack Quantity
ALI+US'	Country of Origin
RFF+ON:G1155'	Purchase Order Number
…………	CPS+10, 11, 12 skipped
CPS+13+8+1'	Fifth Container, Second Tare: CPS02 being populated indicates the child container association to its parent tare
PAC+1++0000CART'	Expendable Container Identifier
MEA+AAX+G+KGM:10'	Gross Weight of the Individual Container - GM 1724A (Container Label)
PCI+17'	
DTM+94:20240211:102'	FIFO / Manufactured Date - GM1724A
DTM+36:20241101:102'	Expiration Date (if applicable) - GM1724A
GIR+3+UN123456789A2B4C6D8Q:AW'	Container Serial Number GM1724A
LIN+++12345678:IN'	Part Number - GM1724A
QTY+12:100:C62'	Dispatch Quantity / Quantity Shipped - GM1724A
QTY+3:3000:C62'	Cumulative Quantity
QTY+52:100:C62'	Standard Pack Quantity
ALI+US'	Country of Origin
RFF+ON:G1155'	Purchase Order Number
CPS+14+8+1'	Sixth Container, Second Tare: CPS02 being populated indicates the child container association to its parent tare
PAC+1++0000CART'	Expendable Container Identifier
MEA+AAX+G+KGM:10'	Gross Weight of the Individual Container - GM 1724A (Container Label)
PCI+17'	
DTM+94:20240211:102'	FIFO / Manufactured Date - GM1724A
DTM+36:20241101:102'	Expiration Date (if applicable) - GM1724A
GIR+3+UN123456789A2B4C6D8R:AW'	Container Serial Number GM1724A
LIN+++12345678:IN'	Part Number - GM1724A
QTY+12:100:C62'	Dispatch Quantity / Quantity Shipped - GM1724A
QTY+3:3000:C62'	Cumulative Quantity
QTY+52:100:C62'	Standard Pack Quantity
ALI+US'	Country of Origin
RFF+ON:G1155'	Purchase Order Number

Example 4 – Expendable Packaging / a Master Tare AND a Mixed Tare

Supplier sourced to use expendable containers for multiple part numbers on multiple expendable pallets with multiple expendable lids / covers.

Scenario: 900 pieces of part number 12345678 are shipped in 9 containers (ID# 0000CART) and 300 pieces of part number 22345678 are shipped in 3 containers (ID# 0000CART). The standard pack for each part number / container being 100 pieces. The 12 containers are loaded 2 containers per pallet (ID# 0000PALT) and each pallet with a lid / cover (ID# 0000COVR) to protect the upper layer.

CPS+1++3'	First Tare CPS Loop
	Note: CPS02 not populated
PAC+1++0000PALT'	Expendable Pallet Identifier
PAC+1++0000COVR'	Expendable Lid Identifier
PCI+17'	
GIR+3+UN123456789A2B4C6D8E:ML'	Tare Serial Number / LPN - 1724B (Master Label)
CPS+2+1+1'	First Container, First Tare: CPS02 being populated indicates the child container association to its parent tare

PAC+1++0000CART'	Expendable Container Identifier
MEA+AAX+G+KGM:10'	Gross Weight of the Individual Container - GM 1724A (Container Label)
PCI+17'	
DTM+94:20240211:102'	FIFO / Manufactured Date - GM1724A
DTM+36:20241101:102'	Expiration Date (if applicable) - GM1724A
GIR+3+UN123456789A2B4C6D8F:AW'	Container Serial Number GM1724A
LIN+++12345678:IN'	Part Number - GM1724A
QTY+12:100:C62'	Dispatch Quantity / Quantity Shipped - GM1724A
QTY+3:3000:C62'	Cumulative Quantity
QTY+52:100:C62'	Standard Pack Quantity
ALI+US'	Country of Origin
RFF+ON:G1155'	Purchase Order Number
CPS+3+1+1'	Second Container, First Tare: CPS02 being populated indicates the child container association to its parent tare
PAC+1++0000CART'	Expendable Container Identifier
MEA+AAX+G+KGM:10'	Gross Weight of the Individual Container - GM 1724A (Container Label)
PCI+17'	
DTM+94:20240211:102'	FIFO / Manufactured Date - GM1724A
DTM+36:20241101:102'	Expiration Date (if applicable) - GM1724A
GIR+3+UN123456789A2B4C6D8G:AW'	Container Serial Number GM1724A
LIN+++12345678:IN'	Part Number - GM1724A
QTY+12:100:C62'	Dispatch Quantity / Quantity Shipped - GM1724A
QTY+3:3000:C62'	Cumulative Quantity
QTY+52:100:C62'	Standard Pack Quantity
ALI+US'	Country of Origin
RFF+ON:G1155'	Purchase Order Number
....	CPS+4, 5, 6 skipped
CPS+7+1+1'	Sixth Container, First Tare: CPS02 being populated indicates the child container association to its parent tare
PAC+1++0000CART'	Expendable Container Identifier
MEA+AAX+G+KGM:10'	Gross Weight of the Individual Container - GM 1724A (Container Label)
PCI+17'	
DTM+94:20240211:102'	FIFO / Manufactured Date - GM1724A
DTM+36:20241101:102'	Expiration Date (if applicable) - GM1724A
GIR+3+UN123456789A2B4C6D8K:AW'	Container Serial Number GM1724A
LIN+++12345678:IN'	Part Number - GM1724A
QTY+12:100:C62'	Dispatch Quantity / Quantity Shipped - GM1724A
QTY+3:3000:C62'	Cumulative Quantity
QTY+52:100:C62'	Standard Pack Quantity
ALI+US'	Country of Origin
RFF+ON:G1155'	Purchase Order Number
CPS+8++3'	Second Tare CPS Loop Note: CPS02 not populated
PAC+1++0000PALT'	Expendable Pallet Identifier
PAC+1++0000COVR'	Expendable Lid Identifier
PCI+17'	
GIR+3+UN123456789A2B4C6D8L:ML'	Second Tare Serial Number / LPN - 1724B (Master Label)

CPS+9+8+1'	First Container, Second Tare: CPS02 being populated indicates the child container association to its parent tare
PAC+1++0000CART'	Expendable Container Identifier
MEA+AAX+G+KGM:10'	Gross Weight of the Individual Container - GM 1724A (Container Label)
PCI+17'	
DTM+94:20240211:102'	FIFO / Manufactured Date - GM1724A
DTM+36:20241101:102'	Expiration Date (if applicable) - GM1724A
GIR+3+UN123456789A2B4C6D8M:AW'	Container Serial Number GM1724A
LIN+++12345678:IN'	Part Number - GM1724A
QTY+12:100:C62'	Dispatch Quantity / Quantity Shipped - GM1724A
QTY+3:3000:C62'	Cumulative Quantity
QTY+52:100:C62'	Standard Pack Quantity
ALI+US'	Country of Origin
RFF+ON:G1155'	Purchase Order Number
………….	CPS+10, 11, 12 skipped
CPS+13+8+1'	Fifth Container, Second Tare: CPS02 being populated indicates the child container association to its parent tare
PAC+1++0000CART'	Expendable Container Identifier
MEA+AAX+G+KGM:10'	Gross Weight of the Individual Container - GM 1724A (Container Label)
PCI+17'	
DTM+94:20240211:102'	FIFO / Manufactured Date - GM1724A
DTM+36:20241101:102'	Expiration Date (if applicable) - GM1724A
GIR+3+UN123456789A2B4C6D8Q:AW'	Container Serial Number GM1724A
LIN+++22345678:IN'	Part Number - GM1724A
QTY+12:100:C62'	Dispatch Quantity / Quantity Shipped - GM1724A
QTY+3:3000:C62'	Cumulative Quantity
QTY+52:100:C62'	Standard Pack Quantity
ALI+US'	Country of Origin
RFF+ON:G1155'	Purchase Order Number
CPS+14+8+1'	Sixth Container, Second Tare: CPS02 being populated indicates the child container association to its parent tare
PAC+1++0000CART'	Expendable Container Identifier
MEA+AAX+G+KGM:10'	Gross Weight of the Individual Container - GM 1724A (Container Label)
PCI+17'	
DTM+94:20240211:102'	FIFO / Manufactured Date - GM1724A
DTM+36:20241101:102'	Expiration Date (if applicable) - GM1724A
GIR+3+UN123456789A2B4C6D8R:AW'	Container Serial Number GM1724A
LIN+++22345678:IN'	Part Number - GM1724A
QTY+12:100:C62'	Dispatch Quantity / Quantity Shipped - GM1724A
QTY+3:3000:C62'	Cumulative Quantity
QTY+52:100:C62'	Standard Pack Quantity
ALI+US'	Country of Origin
RFF+ON:G1155'	Purchase Order Number

Example 5 – Expendable Packaging / Multiple Containers as a Pallet (Individual Boxes):

Supplier sourced to use expendable containers for one part number.

Scenario: 200 pieces of part number 12345678 are shipped in 2 containers (ID# 0000CART). The standard pack for each container being 100 pieces. The 2 containers are shipped as is via FEDEX.

CPS+1++3'	First Tare CPS Loop Note: CPS02 not populated
PAC+0++0000CART'	Expendable container, number of packages (PAC01) set to 0 at tare level to prevent counting twice
PCI+17'	
GIR+3+UN123456789A2B4C6D8F:AW'	Container Serial Number / LPN - GM 1724A (Container Label)
CPS+2+1+1'	First Container, First Tare: CPS02 being populated indicates the child container association to its parent tare
PAC+1++0000CART'	Expendable Container Identifier
MEA+AAX+G+KGM:10'	Gross Weight of the Individual Container - GM 1724A (Container Label)
PCI+17'	
DTM+94:20240211:102'	FIFO / Manufactured Date - GM1724A
DTM+36:20241101:102'	Expiration Date (if applicable) - GM1724A
GIR+3+UN123456789A2B4C6D8F:AW'	Container Serial Number GM1724A
LIN+++12345678:IN'	Part Number - GM1724A

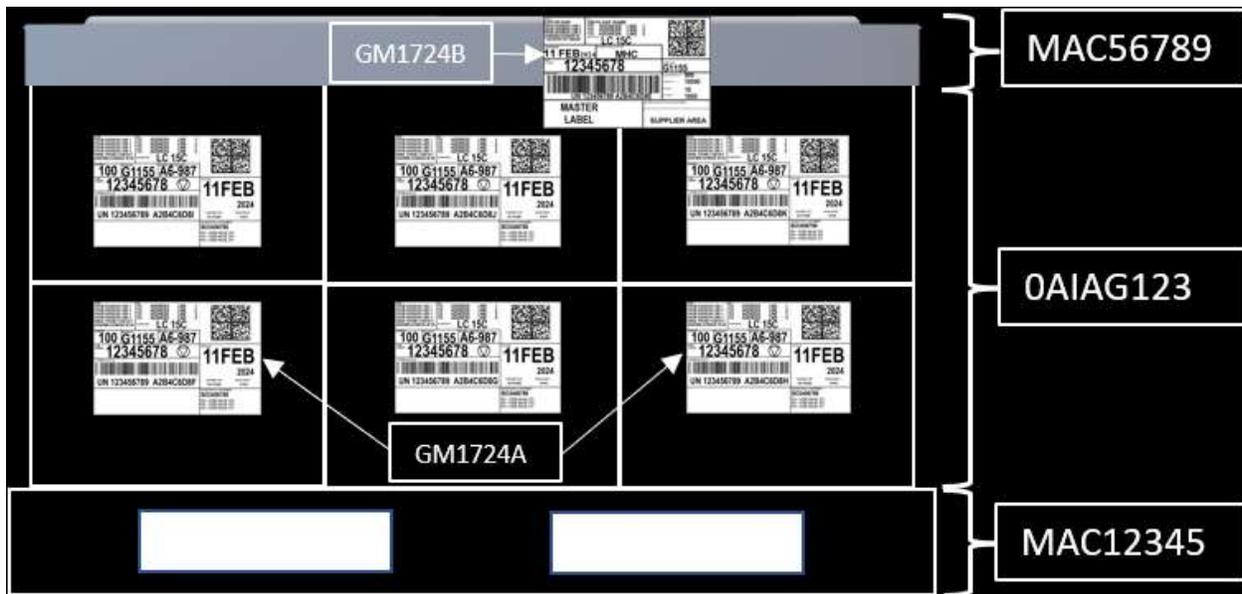| QTY+12:100:C62'	Dispatch Quantity / Quantity Shipped - GM1724A
QTY+3:3000:C62'	Cumulative Quantity
QTY+52:100:C62'	Standard Pack Quantity
ALI+US'	Country of Origin
RFF+ON:G1155'	Purchase Order Number
CPS+3++3'	Second Tare CPS Loop Note: CPS02 not populated
PAC+0++0000CART'	Expendable container, number of packages (PAC01) set to 0 at tare level to prevent counting twice
PCI+17'	
GIR+3+UN123456789A2B4C6D8G:AW'	Container Serial Number / LPN - GM 1724A (Container Label)
CPS+4+3+1'	First Container, Second Tare: CPS02 being populated indicates the child container association to its parent tare
PAC+1++0000CART'	Expendable Container Identifier
MEA+AAX+G+KGM:10'	Gross Weight of the Individual Container - GM 1724A (Container Label)
PCI+17'	
DTM+94:20240211:102'	FIFO / Manufactured Date - GM1724A
DTM+36:20241101:102'	Expiration Date (if applicable) - GM1724A
GIR+3+UN123456789A2B4C6D8G:AW'	Container Serial Number GM1724A
LIN+++12345678:IN'	Part Number - GM1724A
QTY+12:100:C62'	Dispatch Quantity / Quantity Shipped - GM1724A
QTY+3:3000:C62'	Cumulative Quantity
QTY+52:100:C62'	Standard Pack Quantity
ALI+US'	Country of Origin
RFF+ON:G1155'	Purchase Order Number

Example 6 – Returnable Packaging / Master Tare:

Supplier sourced to use returnable containers for one part number on a returnable pallet with a returnable lid.

Scenario: 600 pieces of part number 12345678 are shipped in 6 containers type (ID# 0AIAG123). The standard pack for each container being 100 pieces. The 6 containers are loaded on one pallet (ID# MAC12345) with a lid (ID# MAC56789) is used to protect the upper layer.

CPS+1++3'	Tare Level CPS Loop Note: CPS02 not populated
PAC+1++MAC12345'	Returnable Pallet Identifier
PAC+1++MAC56789'	Returnable Lid Identifier
PCI+17'	
GIR+3+UN123456789A2B4C6D8E:ML'	Tare Serial Number / LPN - 1724B (Master Label)
CPS+2+1+1'	FIRST Container: CPS02 being populated indicates the child containers association to its parent tare
PAC+1++0AIAG123'	Returnable Container Identifier
MEA+AAX+G+KGM:10'	Gross Weight of the Individual Container - GM 1724A (Container Label)
PCI+17'	
DTM+94:20240211:102'	FIFO / Manufactured Date - GM1724A
DTM+36:20241101:102'	Expiration Date (if applicable) - GM1724A
GIR+3+UN123456789A2B4C6D8F:AW'	Container Serial Number GM1724A
LIN+++12345678:IN'	Part Number - GM1724A
QTY+12:100:C62'	Dispatch Quantity / Quantity Shipped - GM1724A
QTY+3:3000:C62'	Cumulative Quantity
QTY+52:100:C62'	Standard Pack Quantity

ALI+US'	Country of Origin
RFF+ON:G1155'	Purchase Order Number
CPS+3+1+1'	SECOND Container: CPS02 being populated indicates the child containers association to its parent tare
PAC+1++0AIAG123'	Returnable Container Identifier
MEA+AAX+G+KGM:10'	Gross Weight of the Individual Container - GM 1724A (Container Label)
PCI+17'	
DTM+94:20240211:102'	FIFO / Manufactured Date - GM1724A
DTM+36:20241101:102'	Expiration Date (if applicable) - GM1724A
GIR+3+UN123456789A2B4C6D8G:AW'	Container Serial Number GM1724A
LIN+++12345678:IN'	Part Number - GM1724A
QTY+12:100:C62'	Dispatch Quantity / Quantity Shipped - GM1724A
QTY+3:3000:C62'	Cumulative Quantity
QTY+52:100:C62'	Standard Pack Quantity
ALI+US'	Country of Origin
RFF+ON:G1155'	Purchase Order Number
CPS+4+1+1'	Third Container: CPS02 being populated indicates the child containers association to its parent tare
PAC+1++0AIAG123'	Returnable Container Identifier
MEA+AAX+G+KGM:10'	Gross Weight of the Individual Container - GM 1724A (Container Label)
PCI+17'	
DTM+94:20240211:102'	FIFO / Manufactured Date - GM1724A
DTM+36:20241101:102'	Expiration Date (if applicable) - GM1724A
GIR+3+UN123456789A2B4C6D8H:AW'	Container Serial Number GM1724A
LIN+++12345678:IN'	Part Number - GM1724A
QTY+12:100:C62'	Dispatch Quantity / Quantity Shipped - GM1724A
QTY+3:3000:C62'	Cumulative Quantity
QTY+52:100:C62'	Standard Pack Quantity
ALI+US'	Country of Origin
RFF+ON:G1155'	Purchase Order Number
CPS+5+1+1'	Fourth Container: CPS02 being populated indicates the child containers association to its parent tare
PAC+1++0AIAG123'	Returnable Container Identifier
MEA+AAX+G+KGM:10'	Gross Weight of the Individual Container - GM 1724A (Container Label)
PCI+17'	
DTM+94:20240211:102'	FIFO / Manufactured Date - GM1724A
DTM+36:20241101:102'	Expiration Date (if applicable) - GM1724A
GIR+3+UN123456789A2B4C6D8I:AW'	Container Serial Number GM1724A
LIN+++12345678:IN'	Part Number - GM1724A
QTY+12:100:C62'	Dispatch Quantity / Quantity Shipped - GM1724A
QTY+3:3000:C62'	Cumulative Quantity
QTY+52:100:C62'	Standard Pack Quantity
ALI+US'	Country of Origin
RFF+ON:G1155'	Purchase Order Number
CPS+6+1+1'	Fifth Container: CPS02 being populated indicates the child containers association to its parent tare
PAC+1++0AIAG123'	Returnable Container Identifier

MEA+AAX+G+KGM:10'	Gross Weight of the Individual Container - GM 1724A (Container Label)
PCI+17'	
DTM+94:20240211:102'	FIFO / Manufactured Date - GM1724A
DTM+36:20241101:102'	Expiration Date (if applicable) - GM1724A
GIR+3+UN123456789A2B4C6D8J:AW'	Container Serial Number GM1724A
LIN+++12345678:IN'	Part Number - GM1724A
QTY+12:100:C62'	Dispatch Quantity / Quantity Shipped - GM1724A
QTY+3:3000:C62'	Cumulative Quantity
QTY+52:100:C62'	Standard Pack Quantity
ALI+US'	Country of Origin
RFF+ON:G1155'	Purchase Order Number
CPS+7+1+1'	SIXTH Container: CPS02 being populated indicates the child containers association to its parent tare
PAC+1++0AIAG123'	Returnable Container Identifier
MEA+AAX+G+KGM:10'	Gross Weight of the Individual Container - GM 1724A (Container Label)
PCI+17'	
DTM+94:20240211:102'	FIFO / Manufactured Date - GM1724A
DTM+36:20241101:102'	Expiration Date (if applicable) - GM1724A
GIR+3+UN123456789A2B4C6D8K:AW'	Container Serial Number GM1724A
LIN+++12345678:IN'	Part Number - GM1724A
QTY+12:100:C62'	Dispatch Quantity / Quantity Shipped - GM1724A
QTY+3:3000:C62'	Cumulative Quantity
QTY+52:100:C62'	Standard Pack Quantity
ALI+US'	Country of Origin
RFF+ON:G1155'	Purchase Order Number

Example 7 – Returnable Packaging / Mixed Tare:

Supplier sourced to use returnable containers for multiple part numbers on a returnable pallet with a returnable lid / cover.

Scenario: 300 pieces of part number 12345678 are shipped in 3 returnable containers (ID# 0AIAG123) and 300 pieces of part number 22345678 are shipped in 3 returnable containers (ID# 0AIAG123). The standard pack for each part number / container being 100 pieces. The 6 containers are loaded on a returnable pallet (ID# MAC12345) with a returnable lid / cover (ID# MAC56789) to protect the upper layer.

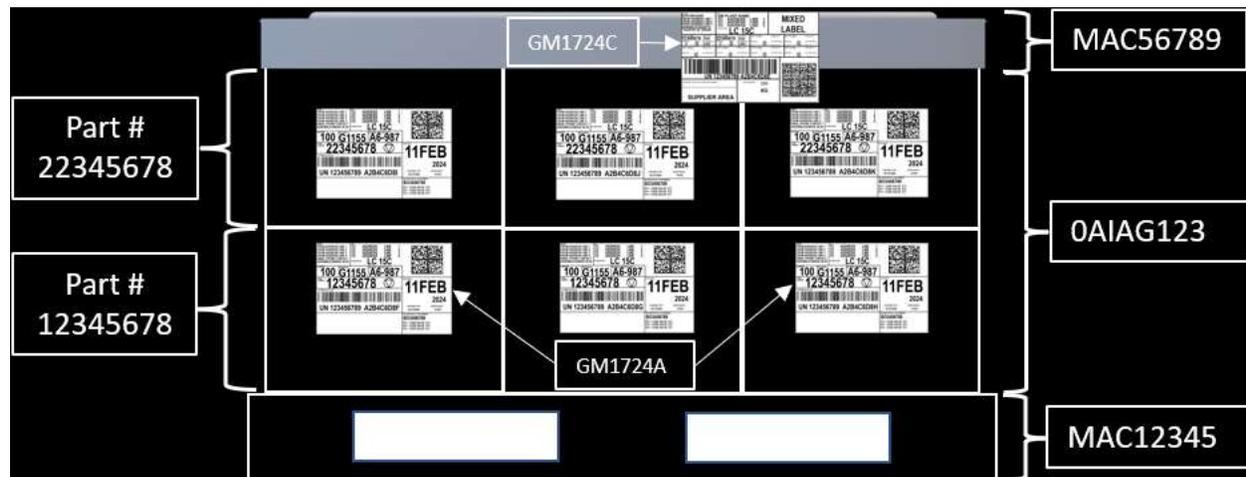|	
CPS+1++3'	Tare CPS Loop Note: CPS02 not populated
PAC+1++MAC12345'	Returnable Pallet Identifier
PAC+1++MAC56789'	Returnable Lid Identifier
PCI+17'	
GIR+3+UN123456789A2B4C6D8E:ML'	Tare Serial Number / LPN – 1724C (Mixed Label)
CPS+2+1+1'	FIRST Container: CPS02 being populated indicates the child containers association to its parent tare
PAC+1++0AIAG123'	Returnable Container Identifier
MEA+AAX+G+KGM:10'	Gross Weight of the Individual Container - GM 1724A (Container Label)
PCI+17'	
DTM+94:20240211:102'	FIFO / Manufactured Date - GM1724A
DTM+36:20241101:102'	Expiration Date (if applicable) - GM1724A
GIR+3+UN123456789A2B4C6D8F:AW'	Container Serial Number GM1724A
LIN+++12345678:IN'	Part Number - GM1724A
QTY+12:100:C62'	Dispatch Quantity / Quantity Shipped - GM1724A
QTY+3:3000:C62'	Cumulative Quantity
QTY+52:100:C62'	Standard Pack Quantity
ALI+US'	Country of Origin

RFF+ON:G1155'	Purchase Order Number
CPS+3+1+1'	Second Container: CPS02 being populated indicates the child containers association to its parent tare
PAC+1++0AIAG123'	Returnable Container Identifier
MEA+AAX+G+KGM:10'	Gross Weight of the Individual Container - GM 1724A (Container Label)
PCI+17'	
DTM+94:20240211:102'	FIFO / Manufactured Date - GM1724A
DTM+36:20241101:102'	Expiration Date (if applicable) - GM1724A
GIR+3+UN123456789A2B4C6D8G:AW'	Container Serial Number GM1724A
LIN+++12345678:IN'	Part Number - GM1724A
QTY+12:100:C62'	Dispatch Quantity / Quantity Shipped - GM1724A
QTY+3:3000:C62'	Cumulative Quantity
QTY+52:100:C62'	Standard Pack Quantity
ALI+US'	Country of Origin
RFF+ON:G1155'	Purchase Order Number
CPS+4+1+1'	Third Container: CPS02 being populated indicates the child containers association to its parent tare
PAC+1++0AIAG123'	Returnable Container Identifier
MEA+AAX+G+KGM:10'	Gross Weight of the Individual Container - GM 1724A (Container Label)
PCI+17'	
DTM+94:202402811:102'	FIFO / Manufactured Date - GM1724A
DTM+36:20241101:102'	Expiration Date (if applicable) - GM1724A
GIR+3+UN123456789A2B4C6D8H:AW'	Container Serial Number GM1724A
LIN+++12345678:IN'	Part Number - GM1724A
QTY+12:100:C62'	Dispatch Quantity / Quantity Shipped - GM1724A
QTY+3:3000:C62'	Cumulative Quantity
QTY+52:100:C62'	Standard Pack Quantity
ALI+US'	Country of Origin
RFF+ON:G1155'	Purchase Order Number
CPS+5+1+1'	Fourth Container: CPS02 being populated indicates the child containers association to its parent tare
PAC+1++0AIAG123'	Returnable Container Identifier
MEA+AAX+G+KGM:10'	Gross Weight of the Individual Container - GM 1724A (Container Label)
PCI+17'	
DTM+94:202402811:102'	FIFO / Manufactured Date - GM1724A
DTM+36:20241101:102'	Expiration Date (if applicable) - GM1724A
GIR+3+UN123456789A2B4C6D8I:AW'	Container Serial Number GM1724A
LIN+++22345678:IN'	Part Number - GM1724A
QTY+12:100:C62'	Dispatch Quantity / Quantity Shipped - GM1724A
QTY+3:3000:C62'	Cumulative Quantity
QTY+52:100:C62'	Standard Pack Quantity
ALI+US'	Country of Origin
RFF+ON:G1155'	Purchase Order Number
CPS+6+1+1'	Fifth Container: CPS02 being populated indicates the child containers association to its parent tare
PAC+1++0AIAG123'	Returnable Container Identifier
MEA+AAX+G+KGM:10'	Gross Weight of the Individual Container - GM 1724A (Container Label)

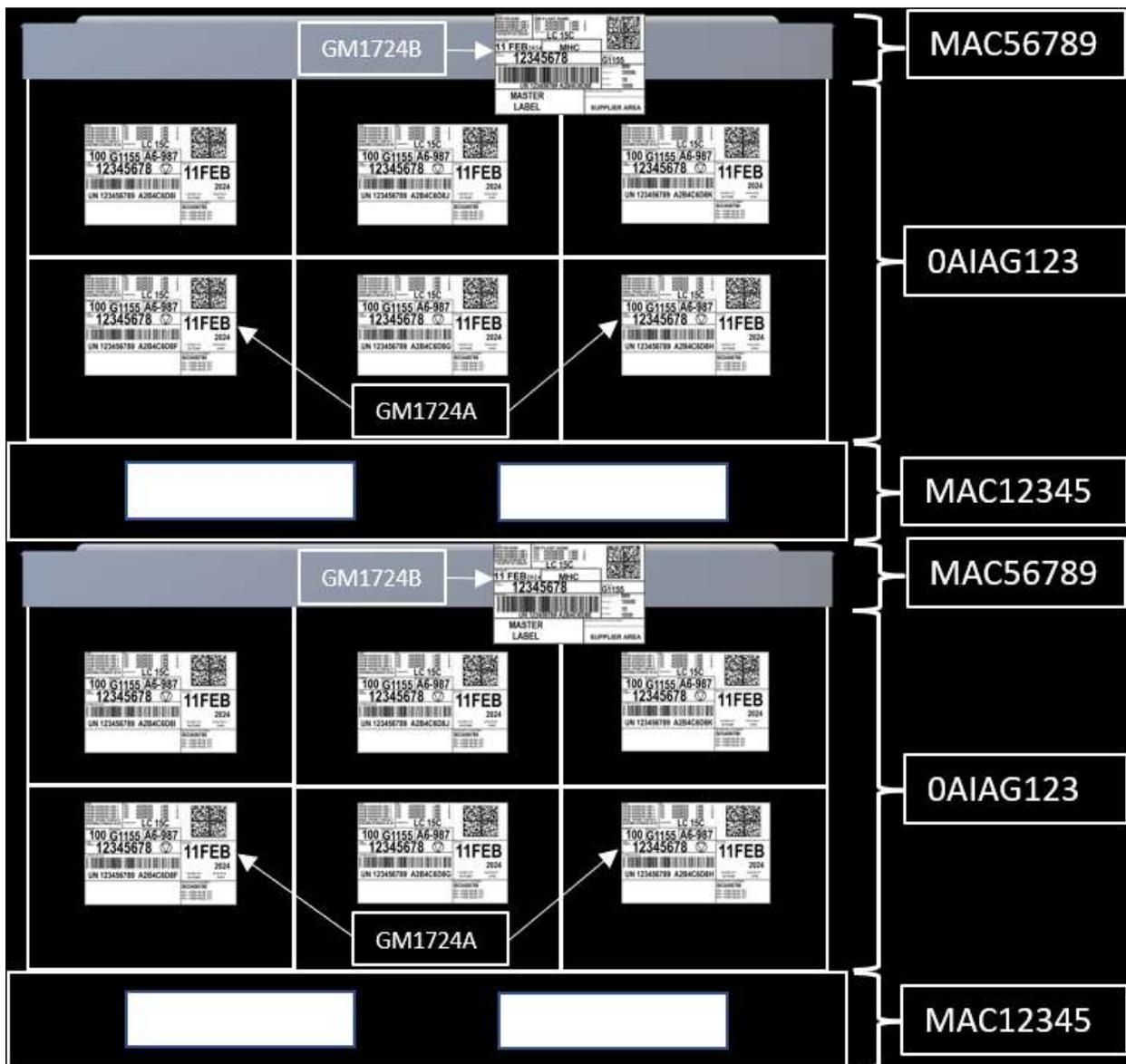| PCI+17'	
DTM+94:202402811:102'	FIFO / Manufactured Date - GM1724A
DTM+36:20241101:102'	Expiration Date (if applicable) - GM1724A
GIR+3+UN123456789A2B4C6D8J:AW'	Container Serial Number GM1724A
LIN+++22345678:IN'	Part Number - GM1724A
QTY+12:100:C62'	Dispatch Quantity / Quantity Shipped - GM1724A
QTY+3:3000:C62'	Cumulative Quantity
QTY+52:100:C62'	Standard Pack Quantity
ALI+US'	Country of Origin
RFF+ON:G1155'	Purchase Order Number
CPS+7+1+1'	Sixth Container: CPS02 being populated indicates the child containers association to its parent tare
PAC+1++0AIAG123'	Returnable Container Identifier
MEA+AAX+G+KGM:10'	Gross Weight of the Individual Container - GM 1724A (Container Label)
PCI+17'	
DTM+94:202402811:102'	FIFO / Manufactured Date - GM1724A
DTM+36:20241101:102'	Expiration Date (if applicable) - GM1724A
GIR+3+UN123456789A2B4C6D8K:AW'	Container Serial Number GM1724A
LIN+++22345678:IN'	Part Number - GM1724A
QTY+12:100:C62'	Dispatch Quantity / Quantity Shipped - GM1724A
QTY+3:3000:C62'	Cumulative Quantity
QTY+52:100:C62'	Standard Pack Quantity
ALI+US'	Country of Origin
RFF+ON:G1155'	Purchase Order Number

Example 8 – Returnable Packaging / Multiple Master Tares:

Supplier sourced to use returnable containers for one part number on multiple returnable pallets with multiple returnable lids / covers.

Scenario: 1200 pieces of part number 12345678 are shipped in 12 containers (ID# 0AIAG123). The standard pack for each container being 100 pieces. The 12 containers are loaded 2 containers per pallet (ID# MAC12345) and each pallet with a lid / cover (ID# MAC56789) to protect the upper layer.

CPS+1++3'	First Tare CPS Loop Note: CPS02 not populated
PAC+1++MAC12345'	Returnable Pallet Identifier
PAC+1++MAC56789'	Returnable Lid Identifier
PCI+17'	
GIR+3+UN123456789A2B4C6D8E:ML'	Tare Serial Number / LPN - 1724B (Master Label)
CPS+2+1+1'	First Container, First Tare: CPS02 being populated indicates the child container association to its parent tare
PAC+1++0AIAG123'	Returnable Container Identifier
MEA+AAX+G+KGM:10'	Gross Weight of the Individual Container - GM 1724A (Container Label)
PCI+17'	
DTM+94:20240211:102'	FIFO / Manufactured Date - GM1724A
DTM+36:20241101:102'	Expiration Date (if applicable) - GM1724A
GIR+3+UN123456789A2B4C6D8F:AW'	Container Serial Number GM1724A
LIN+++12345678:IN'	Part Number - GM1724A
QTY+12:100:C62'	Dispatch Quantity / Quantity Shipped - GM1724A
QTY+3:3000:C62'	Cumulative Quantity
QTY+52:100:C62'	Standard Pack Quantity
ALI+US'	Country of Origin
RFF+ON:G1155'	Purchase Order Number
CPS+3+1+1'	Second Container, First Tare: CPS02 being populated indicates the child container association to its parent tare
PAC+1++0AIAG123'	Returnable Container Identifier
MEA+AAX+G+KGM:10'	Gross Weight of the Individual Container - GM 1724A (Container Label)
PCI+17'	
DTM+94:20240211:102'	FIFO / Manufactured Date - GM1724A
DTM+36:20241101:102'	Expiration Date (if applicable) - GM1724A
GIR+3+UN123456789A2B4C6D8G:AW'	Container Serial Number GM1724A
LIN+++12345678:IN'	Part Number - GM1724A
QTY+12:100:C62'	Dispatch Quantity / Quantity Shipped - GM1724A
QTY+3:3000:C62'	Cumulative Quantity
QTY+52:100:C62'	Standard Pack Quantity
ALI+US'	Country of Origin
RFF+ON:G1155'	Purchase Order Number
………….	CPS+4, 5, 6 skipped
CPS+7+1+1'	Sixth Container, First Tare: CPS02 being populated indicates the child container association to its parent tare
PAC+1++0AIAG123'	Returnable Container Identifier
MEA+AAX+G+KGM:10'	Gross Weight of the Individual Container - GM 1724A (Container Label)
PCI+17'	
DTM+94:20240211:102'	FIFO / Manufactured Date - GM1724A
DTM+36:20241101:102'	Expiration Date (if applicable) - GM1724A
GIR+3+UN123456789A2B4C6D8K:AW'	Container Serial Number GM1724A
LIN+++12345678:IN'	Part Number - GM1724A
QTY+12:100:C62'	Dispatch Quantity / Quantity Shipped - GM1724A
QTY+3:3000:C62'	Cumulative Quantity
QTY+52:100:C62'	Standard Pack Quantity
ALI+US'	Country of Origin

RFF+ON:G1155'	Purchase Order Number
CPS+8++3'	Second Tare CPS Loop Note: CPS02 not populated
PAC+1++MAC12345'	Returnable Pallet Identifier
PAC+1++MAC56789'	Returnable Lid Identifier
PCI+17'	
GIR+3+UN123456789A2B4C6D8L:ML'	Second Tare Serial Number / LPN - 1724B (Master Label)
CPS+9+8+1'	First Container, Second Tare: CPS02 being populated indicates the child container association to its parent tare
PAC+1++0AIAG123'	Returnable Container Identifier
MEA+AAX+G+KGM:10'	Gross Weight of the Individual Container - GM 1724A (Container Label)
PCI+17'	
DTM+94:20240211:102'	FIFO / Manufactured Date - GM1724A
DTM+36:20241101:102'	Expiration Date (if applicable) - GM1724A
GIR+3+UN123456789A2B4C6D8M:AW'	Container Serial Number GM1724A
LIN+++12345678:IN'	Part Number - GM1724A
QTY+12:100:C62'	Dispatch Quantity / Quantity Shipped - GM1724A
QTY+3:3000:C62'	Cumulative Quantity
QTY+52:100:C62'	Standard Pack Quantity
ALI+US'	Country of Origin
RFF+ON:G1155'	Purchase Order Number
………….	CPS+10, 11, 12 skipped
CPS+13+8+1'	Fifth Container, Second Tare: CPS02 being populated indicates the child container association to its parent tare
PAC+1++0AIAG123'	Returnable Container Identifier
MEA+AAX+G+KGM:10'	Gross Weight of the Individual Container - GM 1724A (Container Label)
PCI+17'	
DTM+94:20240211:102'	FIFO / Manufactured Date - GM1724A
DTM+36:20241101:102'	Expiration Date (if applicable) - GM1724A
GIR+3+UN123456789A2B4C6D8Q:AW'	Container Serial Number GM1724A
LIN+++12345678:IN'	Part Number - GM1724A
QTY+12:100:C62'	Dispatch Quantity / Quantity Shipped - GM1724A
QTY+3:3000:C62'	Cumulative Quantity
QTY+52:100:C62'	Standard Pack Quantity
ALI+US'	Country of Origin
RFF+ON:G1155'	Purchase Order Number
CPS+14+8+1'	Sixth Container, Second Tare: CPS02 being populated indicates the child container association to its parent tare
PAC+1++0AIAG123'	Returnable Container Identifier
MEA+AAX+G+KGM:10'	Gross Weight of the Individual Container - GM 1724A (Container Label)
PCI+17'	
DTM+94:20240211:102'	FIFO / Manufactured Date - GM1724A
DTM+36:20241101:102'	Expiration Date (if applicable) - GM1724A
GIR+3+UN123456789A2B4C6D8R:AW'	Container Serial Number GM1724A
LIN+++12345678:IN'	Part Number - GM1724A
QTY+12:100:C62'	Dispatch Quantity / Quantity Shipped - GM1724A
QTY+3:3000:C62'	Cumulative Quantity
QTY+52:100:C62'	Standard Pack Quantity

ALI+US'	Country of Origin
RFF+ON:G1155'	Purchase Order Number

Example 9 – Returnable Packaging / a Master Tare AND a Mixed Tare:

Supplier sourced to use returnable containers for multiple part numbers on multiple returnable pallets with multiple returnable lids / covers.

Scenario: 900 pieces of part number 12345678 are shipped in 900 containers (ID# 0AIAG123) and 300 pieces of part number 22345678 are shipped in 3 containers (ID# 0AIAG123). The standard each part number / container being 100 pieces. The 12 containers are loaded 2 containers per pallet (ID# MAC12345) and each pallet with a lid / cover (ID# MAC56789) to protect the upper layer.

CPS+1++3'	First Tare CPS Loop
	Note: CPS02 not populated
PAC+1++MAC12345'	Returnable Pallet Identifier
PAC+1++MAC56789'	Returnable Lid Identifier
PCI+17'	

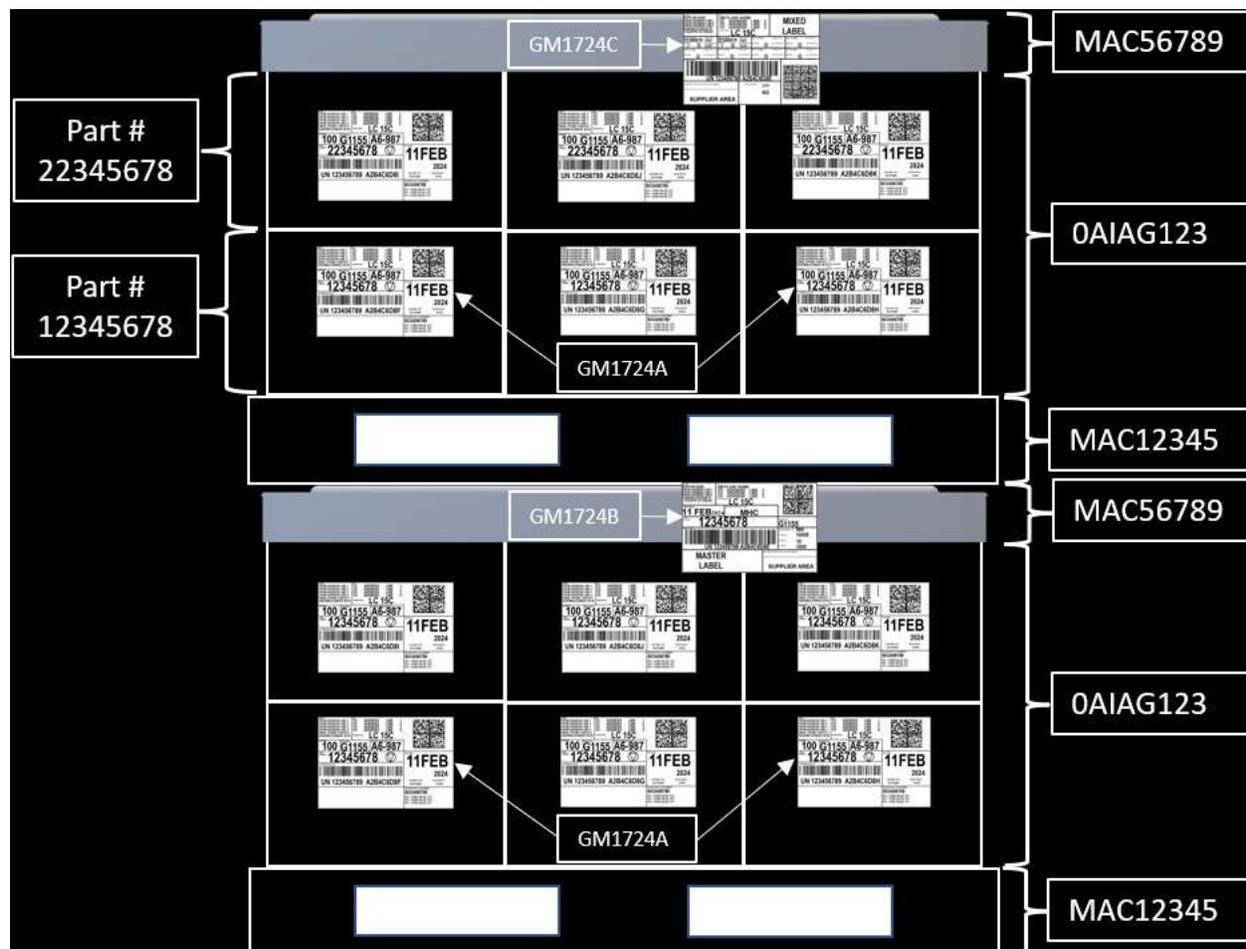|	
GIR+3+UN123456789A2B4C6D8E:ML'	Tare Serial Number / LPN - 1724B (Master Label)
CPS+2+1+1'	First Container, First Tare: CPS02 being populated indicates the child container association to its parent tare
PAC+1++0AIAG123'	Returnable Container Identifier
MEA+AAX+G+KGM:10'	Gross Weight of the Individual Container - GM 1724A (Container Label)
PCI+17'	
DTM+94:20240211:102'	FIFO / Manufactured Date - GM1724A
DTM+36:20241101:102'	Expiration Date (if applicable) - GM1724A
GIR+3+UN123456789A2B4C6D8F:AW'	Container Serial Number GM1724A
LIN+++12345678:IN'	Part Number - GM1724A
QTY+12:100:C62'	Dispatch Quantity / Quantity Shipped - GM1724A
QTY+3:3000:C62'	Cumulative Quantity
QTY+52:100:C62'	Standard Pack Quantity
ALI+US'	Country of Origin
RFF+ON:G1155'	Purchase Order Number
CPS+3+1+1'	Second Container, First Tare: CPS02 being populated indicates the child container association to its parent tare
PAC+1++0AIAG123'	Returnable Container Identifier
MEA+AAX+G+KGM:10'	Gross Weight of the Individual Container - GM 1724A (Container Label)
PCI+17'	
DTM+94:20240211:102'	FIFO / Manufactured Date - GM1724A
DTM+36:20241101:102'	Expiration Date (if applicable) - GM1724A
GIR+3+UN123456789A2B4C6D8G:AW'	Container Serial Number GM1724A
LIN+++12345678:IN'	Part Number - GM1724A
QTY+12:100:C62'	Dispatch Quantity / Quantity Shipped - GM1724A
QTY+3:3000:C62'	Cumulative Quantity
QTY+52:100:C62'	Standard Pack Quantity
ALI+US'	Country of Origin
RFF+ON:G1155'	Purchase Order Number
…………	CPS+4, 5, 6 skipped
CPS+7+1+1'	Sixth Container, First Tare: CPS02 being populated indicates the child container association to its parent tare
PAC+1++0AIAG123'	Returnable Container Identifier
MEA+AAX+G+KGM:10'	Gross Weight of the Individual Container - GM 1724A (Container Label)
PCI+17'	
DTM+94:20240211:102'	FIFO / Manufactured Date - GM1724A
DTM+36:20241101:102'	Expiration Date (if applicable) - GM1724A
GIR+3+UN123456789A2B4C6D8K:AW'	Container Serial Number GM1724A
LIN+++12345678:IN'	Part Number - GM1724A
QTY+12:100:C62'	Dispatch Quantity / Quantity Shipped - GM1724A
QTY+3:3000:C62'	Cumulative Quantity
QTY+52:100:C62'	Standard Pack Quantity
ALI+US'	Country of Origin
RFF+ON:G1155'	Purchase Order Number
CPS+8++3'	Second Tare CPS Loop Note: CPS02 not populated
PAC+1++MAC12345'	Returnable Pallet Identifier
PAC+1++MAC56789'	Returnable Lid Identifier

PCI+17'	
GIR+3+UN123456789A2B4C6D8L:ML'	Second Tare Serial Number / LPN - 1724B (Master Label)
CPS+9+8+1'	First Container, Second Tare: CPS02 being populated indicates the child container association to its parent tare
PAC+1++0AIAG123'	Returnable Container Identifier
MEA+AAX+G+KGM:10'	Gross Weight of the Individual Container - GM 1724A (Container Label)
PCI+17'	
DTM+94:20240211:102'	FIFO / Manufactured Date - GM1724A
DTM+36:20241101:102'	Expiration Date (if applicable) - GM1724A
GIR+3+UN123456789A2B4C6D8M:AW'	Container Serial Number GM1724A
LIN+++12345678:IN'	Part Number - GM1724A
QTY+12:100:C62'	Dispatch Quantity / Quantity Shipped - GM1724A
QTY+3:3000:C62'	Cumulative Quantity
QTY+52:100:C62'	Standard Pack Quantity
ALI+US'	Country of Origin
RFF+ON:G1155'	Purchase Order Number
………….	CPS+10, 11, 12 skipped
CPS+13+8+1'	Fifth Container, Second Tare: CPS02 being populated indicates the child container association to its parent tare
PAC+1++0AIAG123'	Returnable Container Identifier
MEA+AAX+G+KGM:10'	Gross Weight of the Individual Container - GM 1724A (Container Label)
PCI+17'	
DTM+94:20240211:102'	FIFO / Manufactured Date - GM1724A
DTM+36:20241101:102'	Expiration Date (if applicable) - GM1724A
GIR+3+UN123456789A2B4C6D8Q:AW'	Container Serial Number GM1724A
LIN+++22345678:IN'	Part Number - GM1724A
QTY+12:100:C62'	Dispatch Quantity / Quantity Shipped - GM1724A
QTY+3:3000:C62'	Cumulative Quantity
QTY+52:100:C62'	Standard Pack Quantity
ALI+US'	Country of Origin
RFF+ON:G1155'	Purchase Order Number
CPS+14+8+1'	Sixth Container, Second Tare: CPS02 being populated indicates the child container association to its parent tare
PAC+1++0AIAG123'	Returnable Container Identifier
MEA+AAX+G+KGM:10'	Gross Weight of the Individual Container - GM 1724A (Container Label)
PCI+17'	
DTM+94:20240211:102'	FIFO / Manufactured Date - GM1724A
DTM+36:20241101:102'	Expiration Date (if applicable) - GM1724A
GIR+3+UN123456789A2B4C6D8R:AW'	Container Serial Number GM1724A
LIN+++22345678:IN'	Part Number - GM1724A
QTY+12:100:C62'	Dispatch Quantity / Quantity Shipped - GM1724A
QTY+3:3000:C62'	Cumulative Quantity
QTY+52:100:C62'	Standard Pack Quantity
ALI+US'	Country of Origin
RFF+ON:G1155'	Purchase Order Number

Example 10 – Returnable Packaging / Single Container as a Pallet (Engineered Rack):

Supplier sourced for one part number to be shipped in a single returnable rack.

Scenario: 30 pieces of part number 56781234 are dispatched in 1 container / rack type MAC43866. Standard pack of 30 parts.

CPS+1++3'	First Tare CPS Loop Note: CPS02 not populated
PAC+0++MAC43866'	Returnable Rack, number of packages (PAC01) set to 0 at tare level to prevent counting twice
PCI+17'	
GIR+3+UN123456789A2B4C6D8E:AW'	Container Serial Number / LPN - GM 1724A (Container Label)
CPS+2+1+1'	First Container, First Tare: CPS02 being populated indicates the child container association to its parent tare
PAC+1++MAC43866'	Returnable Rack Identifier
MEA+AAX+G+KGM:350'	Gross Weight of the Individual Container - GM 1724A (Container Label)
PCI+17'	
DTM+94:20240211:102'	FIFO / Manufactured Date - GM1724A
DTM+36:20241101:102'	Expiration Date (if applicable) - GM1724A
GIR+3+UN123456789A2B4C6D8E:AW'	Container Serial Number GM1724A
LIN+++56781234:IN'	Part Number - GM1724A
QTY+12:30:C62'	Dispatch Quantity / Quantity Shipped - GM1724A
QTY+3:3000:C62'	Cumulative Quantity
QTY+52:30:C62'	Standard Pack Quantity
ALI+US'	Country of Origin

RFF+ON:41W7004M'	Purchase Order Number

Example 11 – Returnable Packaging / Single Container as a Pallet (Knockdown Pallet):

Supplier sourced for one part number to be shipped in returnable knockdown pallet.

Scenario: 90 pieces of part number 45678123 are dispatched in 1 container / rack type KD323034. Standard pack of 90 parts.

CPS+1++3'	First Tare CPS Loop Note: CPS02 not populated
PAC+0++KD323034'	Returnable Rack, number of packages (PAC01) set to 0 at tare level to prevent counting twice
PCI+17'	

GIR+3+UN123456789A2B4C6D8E:AW'	Container Serial Number / LPN - GM 1724A (Container Label)
CPS+2+1+1'	First Container, First Tare: CPS02 being populated indicates the child container association to its parent tare
PAC+1++KD323034'	Returnable Container Identifier
MEA+AAX+G+KGM:100'	Gross Weight of the Individual Container - GM 1724A (Container Label)
PCI+17'	
DTM+94:20240211:102'	FIFO / Manufactured Date - GM1724A
DTM+36:20241101:102'	Expiration Date (if applicable) - GM1724A
GIR+3+UN123456789A2B4C6D8E:AW'	Container Serial Number GM1724A
LIN+++45678123:IN'	Part Number - GM1724A
QTY+12:90:C62'	Dispatch Quantity / Quantity Shipped - GM1724A
QTY+3:900:C62'	Cumulative Quantity
QTY+52:90:C62'	Standard Pack Quantity
ALI+US'	Country of Origin
RFF+ON:41W7004M'	Purchase Order Number

Supplier sourced for one part number to be shipped in multiple returnable racks.

Scenario: 18 pieces of part number 67812345 are dispatched in 3 containers / racks type MAC43128. Standard pack of 6 parts.

CPS+1++3'	First Tare CPS Loop Note: CPS02 not populated
PAC+0++MAC43128'	Returnable Rack, number of packages (PAC01) set to 0 at tare level to prevent counting twice
PCI+17'	
GIR+3+UN123456789A2B4C6D8E:AW'	Container Serial Number / LPN - GM 1724A (Container Label)
CPS+2+1+1'	First Container, First Tare: CPS02 being populated indicates the child container association to its parent tare
PAC+1++MAC43128'	Returnable Rack Identifier
MEA+AAX+G+KGM:300'	Gross Weight of the Individual Container - GM 1724A (Container Label)
PCI+17'	
DTM+94:20240211:102'	FIFO / Manufactured Date - GM1724A
DTM+36:20241101:102'	Expiration Date (if applicable) - GM1724A
GIR+3+UN123456789A2B4C6D8E:AW'	Container Serial Number GM1724A
LIN+++67812345:IN'	Part Number - GM1724A
QTY+12:30:C62'	Dispatch Quantity / Quantity Shipped - GM1724A
QTY+3:3000:C62'	Cumulative Quantity
QTY+52:30:C62'	Standard Pack Quantity
ALI+US'	Country of Origin
RFF+ON:41W7004M'	Purchase Order Number
CPS+3++3'	Second Tare CPS Loop Note: CPS02 not populated
PAC+0++MAC43128'	Returnable Rack, number of packages (PAC01) set to 0 at tare level to prevent counting twice
PCI+17'	
GIR+3+UN123456789A2B4C6D8F:AW'	Container Serial Number / LPN - GM 1724A (Container Label)
CPS+4+3+1'	First Container, Second Tare: CPS02 being populated indicates the child container association to its parent tare
PAC+1++MAC43128'	Returnable Rack Identifier
MEA+AAX+G+KGM:300'	Gross Weight of the Individual Container - GM 1724A (Container Label)
PCI+17'	
DTM+94:20240211:102'	FIFO / Manufactured Date - GM1724A
DTM+36:20241101:102'	Expiration Date (if applicable) - GM1724A
GIR+3+UN123456789A2B4C6D8F:AW'	Container Serial Number GM1724A
LIN+++67812345:IN'	Part Number - GM1724A
QTY+12:30:C62'	Dispatch Quantity / Quantity Shipped - GM1724A
QTY+3:3000:C62'	Cumulative Quantity
QTY+52:30:C62'	Standard Pack Quantity
ALI+US'	Country of Origin
RFF+ON:41W7004M'	Purchase Order Number
CPS+5++3'	Third Tare CPS Loop Note: CPS02 not populated
PAC+0++MAC43128'	Returnable Rack, number of packages (PAC01) set to 0 at tare level to prevent counting twice
PCI+17'	
GIR+3+UN123456789A2B4C6D8F:AW'	Container Serial Number / LPN - GM 1724A (Container Label)
CPS+6+6+1'	First Container, Third Tare: CPS02 being populated indicates the child container association to its parent tare
PAC+1++MAC43128'	Returnable Rack Identifier

MEA+AAX+G+KGM:300'	Gross Weight of the Individual Container - GM 1724A (Container Label)
PCI+17'	
DTM+94:20240211:102'	FIFO / Manufactured Date - GM1724A
DTM+36:20241101:102'	Expiration Date (if applicable) - GM1724A
GIR+3+UN123456789A2B4C6D8F:AW'	Container Serial Number GM1724A
LIN+++67812345:IN'	Part Number - GM1724A
QTY+12:30:C62'	Dispatch Quantity / Quantity Shipped - GM1724A
QTY+3:3000:C62'	Cumulative Quantity
QTY+52:30:C62'	Standard Pack Quantity
ALI+US'	Country of Origin
RFF+ON:41W7004M'	Purchase Order Number

Complete DESADV Example:

The following DESADV relates to shipment example 1 - expendable packaging / master tare from above.

UNB+UNOA:2+XXX:ZZ+GMGLBACPB:ZZ+980305:1600+1234++GMDESADV'	New Sender Code - GMGLBACPB
UNH+1+DESADV:D:97A:UN'	
BGM+351+12345678+9'	Shipment Identification (SID)
DTM+137:202402111400:203'	DESADV creation date and time
DTM+11:2024024121500:203'	Shipment date and time
DTM+132:202402141000:203'	Arrival date and time (optional)
MEA+AAX+G+KGM:354'	Shipment gross weight
MEA+AAX+N+KGM:354'	Shipment net weight
MEA+AAX+SQ+C62:1'	Total number of lading units
RFF+CN:81982333'	3PL reference ID
RFF+MB:879823876'	Master bill of lading number (optional)
NAD+MI+88120::92'	Material Issuer
NAD+ST+19087::92'	GM ship-to location
NAD+SU+123456789::16'	Supplier DUNS number
LOC+11+15C '	GM dock code
TDT+12++M++MRLC::182'	Shipment mode code and SCAC code
EQD+TE+ABC123456'	Trailer number
SEL+14445'	Seal number (optional)
CPS+1++3'	Tare CPS Loop Note: CPS02 not populated
PAC+1++0000PALT'	Expendable Pallet Identifier
PAC+1++0000COVR'	Expendable Lid Identifier
PCI+17'	
GIR+3+UN123456789A2B4C6D8E:ML'	Tare Serial Number / LPN - 1724B (Master Label)
CPS+2+1+1'	FIRST Container: CPS02 being populated indicates the child containers association to its parent tare
PAC+1++0000CART'	Expendable Container Identifier
MEA+AAX+G+KGM:10'	Gross Weight of the Individual Container - GM 1724A (Container Label)
PCI+17'	
DTM+94:20240211:102'	FIFO / Manufactured Date - GM1724A
DTM+36:20241101:102'	Expiration Date (if applicable) - GM1724A
GIR+3+UN123456789A2B4C6D8F:AW'	Container Serial Number GM1724A
LIN+++12345678:IN'	Part Number - GM1724A

QTY+12:100:C62'	Dispatch Quantity / Quantity Shipped - GM1724A
QTY+3:3000:C62'	Cumulative Quantity
QTY+52:100:C62'	Standard Pack Quantity
ALI+US'	Country of Origin
RFF+ON:G1155'	Purchase Order Number
CPS+3+1+1'	Second Container: CPS02 being populated indicates the child containers association to its parent tare
PAC+1++0000CART'	Expendable Container Identifier
MEA+AAX+G+KGM:10'	Gross Weight of the Individual Container - GM 1724A (Container Label)
PCI+17'	
DTM+94:20240211:102'	FIFO / Manufactured Date - GM1724A
DTM+36:20241101:102'	Expiration Date (if applicable) - GM1724A
GIR+3+UN123456789A2B4C6D8G:AW'	Container Serial Number GM1724A
LIN+++12345678:IN'	Part Number - GM1724A
QTY+12:100:C62'	Dispatch Quantity / Quantity Shipped - GM1724A
QTY+3:3000:C62'	Cumulative Quantity
QTY+52:100:C62'	Standard Pack Quantity
ALI+US'	Country of Origin
RFF+ON:G1155'	Purchase Order Number
CPS+4+1+1'	Third Container: CPS02 being populated indicates the child containers association to its parent tare
PAC+1++0000CART'	Expendable Container Identifier
MEA+AAX+G+KGM:10'	Gross Weight of the Individual Container - GM 1724A (Container Label)
PCI+17'	
DTM+94:20240211:102'	FIFO / Manufactured Date - GM1724A
DTM+36:20241101:102'	Expiration Date (if applicable) - GM1724A
GIR+3+UN123456789A2B4C6D8H:AW'	Container Serial Number GM1724A
LIN+++12345678:IN'	Part Number - GM1724A
QTY+12:100:C62'	Dispatch Quantity / Quantity Shipped - GM1724A
QTY+3:3000:C62'	Cumulative Quantity
QTY+52:100:C62'	Standard Pack Quantity
ALI+US'	Country of Origin
RFF+ON:G1155'	Purchase Order Number

CPS+5+1+1'	Fourth Container: CPS02 being populated indicates the child containers association to its parent tare
PAC+1++0000CART'	Expendable Container Identifier
MEA+AAX+G+KGM:10'	Gross Weight of the Individual Container - GM 1724A (Container Label)
PCI+17'	
DTM+94:20240211:102'	FIFO / Manufactured Date - GM1724A
DTM+36:20241101:102'	Expiration Date (if applicable) - GM1724A
GIR+3+UN123456789A2B4C6D8I:AW'	Container Serial Number GM1724A
LIN+++12345678:IN'	Part Number - GM1724A
QTY+12:100:C62'	Dispatch Quantity / Quantity Shipped - GM1724A
QTY+3:3000:C62'	Cumulative Quantity
QTY+52:100:C62'	Standard Pack Quantity
ALI+US'	Country of Origin
RFF+ON:G1155'	Purchase Order Number
CPS+6+1+1'	Fifth Container: CPS02 being populated indicates the child containers association to its parent tare
PAC+1++0000CART'	Expendable Container Identifier
MEA+AAX+G+KGM:10'	Gross Weight of the Individual Container - GM 1724A (Container Label)
PCI+17'	
DTM+94:20240211:102'	FIFO / Manufactured Date - GM1724A
DTM+36:20241101:102'	Expiration Date (if applicable) - GM1724A
GIR+3+UN123456789A2B4C6D8J:AW'	Container Serial Number GM1724A
LIN+++12345678:IN'	Part Number - GM1724A
QTY+12:100:C62'	Dispatch Quantity / Quantity Shipped - GM1724A
QTY+3:3000:C62'	Cumulative Quantity
QTY+52:100:C62'	Standard Pack Quantity
ALI+US'	Country of Origin
RFF+ON:G1155'	Purchase Order Number
CPS+7+1+1'	Sixth Container: CPS02 being populated indicates the child containers association to its parent tare
PAC+1++0000CART'	Expendable Container Identifier

MEA+AAX+G+KGM:10'	Gross Weight of the Individual Container - GM 1724A (Container Label)
PCI+17'	
DTM+94:202402811:102'	FIFO / Manufactured Date - GM1724A
DTM+36:20241101:102'	Expiration Date (if applicable) - GM1724A
GIR+3+UN123456789A2B4C6D8K:AW'	Container Serial Number GM1724A
LIN+++12345678:IN'	Part Number - GM1724A
QTY+12:100:C62'	Dispatch Quantity / Quantity Shipped - GM1724A
QTY+3:3000:C62'	Cumulative Quantity
QTY+52:100:C62'	Standard Pack Quantity
ALI+US'	Country of Origin
RFF+ON:G1155'	Purchase Order Number
UNT+102+1'	Message enveloping: segment count verification
UNZ+1+1234'	Message enveloping

DESADV Guideline APPENDIX Change Log:

Date	Document Version	Segments Impacted	Detail of Change
3-20-24	4.0		Version 4.0 published
8-12-24	4.1	ALI	Cover Page added, Additional Standards Information (Country of Origin, Failure Scenarios) added, ALI segment updated with 2-character country code (US vs. USA) to match guideline character limit.
10-08-24	4.2	LOC	Added container as a pallet example for individual expendable boxes and corrected LOC+11 segment in headers.