

JEP FOCUSED PACKAGING

JEP Packaging Requirements





JEP FOCUSED PACKAGING

- The purpose of this document is to highlight the focus of packaging specific to Jamestown Engine Plant with the use of both Cummins Global Packaging Standards of Production Parts (ESN 19041) and the JEP Packaging Standards.
- Both Standards can be requested from Cummins Packaging Team. Contacts are listed at the end of this presentation.
- The document contains descriptions and examples of ideal packaging that will lead to the improvement of safety and aid in meeting lean initiatives affiliated with production packaging.
- This document intension is to aid in the development of production packaging for Cummins Jamestown Engine Plant.

JEP FOCUSED PACKAGING

Definitions

- Primary Container



- UNIT Container



Internal Dunnage & Primary Containers

(manageable sized containers)

- Primary Containers should be designed to fit manageable number of parts with a max unit weight of **30lbs**. ** stay at 27# to be safe
- Containers should be designed for easy part removable by minimizing dunnage. VCI bags should minimize use of adhesives by folding rather than tying or thermally bonding bags closed. Packaging will review exceptions.
- Primary Container should not exceed dimensions of **48"x15"**(LengthxWidth) without approval. Head space should be kept at minimum.
- Every Primary Container requires an AIAG label on the box (not the lid). At minimum a Cummins part number needs to be stamped for container smaller than AIAG labels with approval from JEP Packaging.
- Primary containers should **not require cutting tools** to open. To meet this requirement primary containers should be open on the top. If primary container closure is needed, then top cap can be used. Open containers are used with layer pads for stability.

Ideal Primary Container Designs

(Approved bottoms and top cap)



Top Flap

*only if perforated



Removable Lids

Ideal Primary Container Designs

(Approved open primary containers)



- ❑ Layer pad support and open box design
- ❑ AIAG labels required. Cummins PN stamp required for containers too small for AIAG labels

Ideal Primary Container Designs

(Approved styles of custom dividers)



Dividers allow access to multiple parts. Reduces part extraction time and excess materials.

Ideal Primary Container Designs

(Approved Layouts of VCI Bags/Film)



Non ties, to be folded shut for part protection



Secondary VCI bag and VCI bag per layer



Secondary VCI bag and Individual part bags

☐ Part protection is the responsibility of the supplier.

Ideal Primary Container Designs

(Approved for large parts)



- ❑ Dividers throughout container
- ❑ Removable top cap
- ❑ Sleeve wall with use of stable dunnage
- ❑ Corrugated layer pads

Ideal Primary Container Designs

(Approved for large parts)



Sleeve Pack Container



- ☐ Removable sleeve wall allows access to lower layers
- ☐ Removable top cap
- ☐ Bottom Cap for bottom layer support to parts, fasten to pallet.
- ☐ Sleeve prevents operators from unsafe bending or over extending to remove parts.

Secondary Container



- ❑ 2 secondary containers is an alternative to sleeve wall
- ❑ Prevents overextending or reaching during part removal

- ❑ JEP does not accept parts in individual sealed bags. Being, we have had issues with parts on cardboard having mold, from our overseas suppliers. This is 2 ways to help eliminate this issue.

- Put your cardboard layer pad down
- Next the cardboard corrugated divider
- 1 large sheet of VCI plastic, large enough for the divider and all the parts
- Gently push part into the VCI plastic
- Place another large VCI sheet flat on top of the of parts
- And then repeat the layers until you're done filling the box.



- ❑ 2 examples of this kind of packaging



Optional Secondary Container



- ❑ A tri wall container with a removable insert.
- ❑ 4th side tabs support removable insert
- ❑ The removable insert allows operators to reach lower level parts without cutting the secondary container.
- ❑ The tri wall corrugated box is fixed to the base to retain parts internally.
- ❑ Operators should be able to safely remove insert without parts spilling etc.

Not Approved Secondary Container

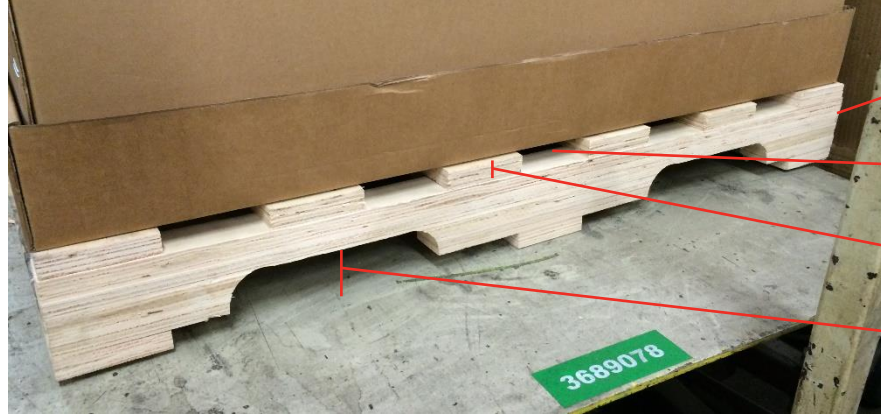


Its big 'NO' for wood crate with metal hinges as secondary container

Pallets

- BLOCK STYLE PALLETS ARE NOT APPROVED. Blocks have the highest occurrence of failure and result in unstable/unsafe loads.
- 4-way access stringer style required for pallets greater than 32"x30". Exceptions must be approved by JEP Packaging. For larger parts standard sizes of 48"x40" and 48"x45" should be utilized.
- Pallet stringers minimum opening height of 3½" (8.89 cm) and notched area require 2½" (6.35 cm) high with 9" width opening.
- Deck Board thickness minimum of ½"(13cm) and max spacing of 3"(8.89cm).
- Pallets and all solid timber packaging must comply with ISPM-15 for all international shipments including freight shipped to Cummins international freight forwarders.

Approved Pallets



Stringer Style Pallet

Max 3" spacing

Minimum $\frac{1}{2}$ " thickness

Minimum notched height of $2\frac{1}{2}$ "

Not Approved Pallets

- Block Style Pallets and 2 Way Access



☒ 2 way style pallet only acceptable for pallets under 32"x30"

☒ Block Style

Cummins JEP AIAG Label information



PART NO. (P) 3931178 		4.0 in. 102 mm
QUALITY (Q) 1000 	P.O. NO. (K) 82000XXX 	
SUPPLIER (V) 4XXXXXX -100XX 	LUBE FILTER HEAD R/L 902 Country of Origin: USA	
SERIAL (S) 1234321123 		
ARC COMPANY, INC. COLUMBUS, IN 47202		THIS AREA IS THE DESCRIPTION AREA This is where the Receiving Location, Part Description
6.5 in. 165 mm		

Information Required

Carton Labels

- Cummins Part Number (text & barcoded)
- Part Description (text & barcoded)
- Quantity per container (text & barcoded)
- Purchase Order Number (text & barcoded)
- Receiving Location (text only)
- Supplier Code (text & barcoded)
- Country of Origin (text only)
- Sequential Label Number (text & barcoded)
- Supplier Name & Address (text only)

Packing Slip *(Note: All shipments must have a packing slip for each receiving location)*

- ❖ **PACKING SLIP HAS TO BE OUTSIDE THE BOX**
- ❖ **EACH box MUST have an identification label on it.**

- Part Number (P)
- Purchase Order Number (K) (8-digit number beginning with 8XXXXXXX)
- Part Description
- Receiving Location (R/L 902)
- Quantity (Q)
- SID# ASN ID (V) (6-digit number mostly beginning with 4XXXXXX, some start with 5XXXXXX) If you are a supplier with multiple locations, you must add your location (4XXXXXX-100XX)
- Number of Cartons
- Country of Origin

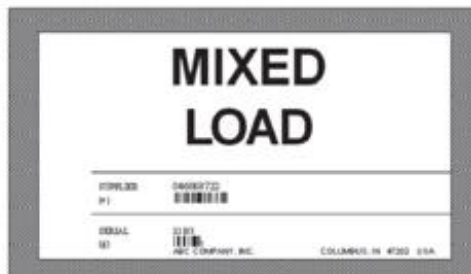
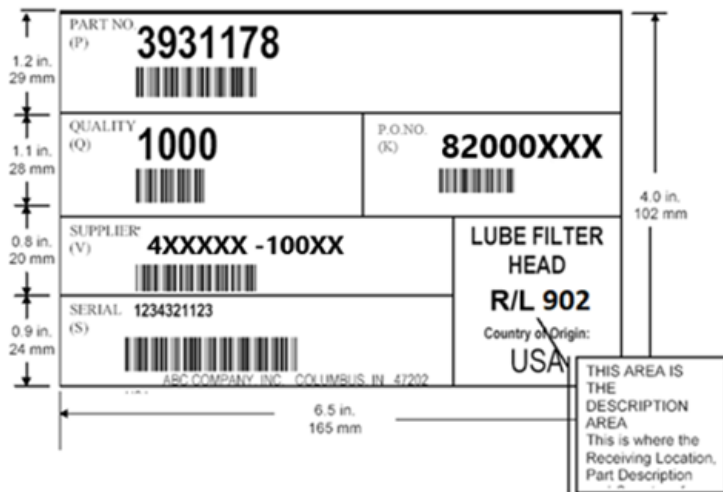
Label Location

Individual Box or Carton (Hand-held)

AIAG label should be located on each individual hand-held container. The upper edges of the label should be as high as possible from the bottom of the carton. Each primary container should require an AIAG label on the box (not on the lid).

Shipping Module

Each carton should be individually labeled as described above. One Master AIAG Label must be placed on the shipping module; one Mixed Load AIAG Label must be used for modules containing more than one component part number.



Full Telescope Cartons (FTC)

Some applications may also require identification of the inner box since Full Telescope Carton cover the entire inner box.





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