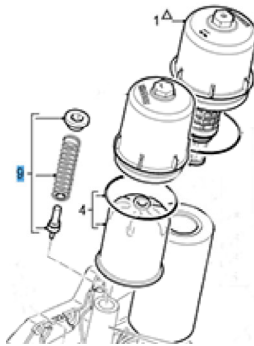




## Technical Information Bulletin

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### E260



### Section

Engine - 45

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### Subject

PACCAR MX-13 Engine Model Year 2019-2020 Oil Filter Cap and Oil Thermostat Replacement

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### Release Date

9/16/2020

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### Condition

Certain engines may have a faulty Oil Bypass Valve located in the Oil Filter Cap assembly. The plastic retaining tabs could break off and put the lubrication system into an unfiltered state. An improved oil thermostat is also available and will be installed at this time.

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### Chassis Affected

Specific chassis with EPA2017 MX-13 engines. See the chassis list.

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### Action

#### Campaign

Service all affected chassis that enter your dealership even if the customer identifies no problems with the chassis.

1. Review the attached chassis list for your dealer code and schedule your customer(s) for service if their chassis is on the list.
  2. If you are not using Service Management to start repair orders, review SIR for "Complete" or "In-Process" next to the "E260" campaign code prior to performing this repair.
  3. Follow the procedures below to replace the oil filter cap and oil thermostat.
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### Warranty

For repairs completed by 10/01/2021, Kenworth will pay for parts at dealer net plus applicable mark-up and labor:

- 0.5 hours labor to replace the oil filter cap and oil thermostat. Use for chassis **with** a broken oil filter cap tab. Use Quick Claim Code E260A.
- 0.5 hours labor to replace the oil filter cap and oil thermostat. Use for chassis **without** a broken oil filter cap tab. Use Quick Claim Code E260B.
- File an additional claim for extraordinary circumstances. A quick claim for standard labor must be filed first.
- File the claim within 14 days in accordance with Warranty Policy [C-A-009](#).
- Direct Fleets and Dealer Sponsored Fleets (DSF) may not use quick claims when submitting for repairs on chassis related to this bulletin but must submit a long form specifying part numbers, quantities, and pricing for parts used in the repair. Submittal of a Quick Claim for repairs made by the Fleet will be denied as pricing is incorrect on quick claims.

Kenworth dealers may perform E260 repairs on Peterbilt chassis, but Quick Claims do not apply. For Peterbilt chassis repairs, use the long claim input form in DWWC selecting "Draft/Offline Claims ", the "General " tab, and in the "Type of Claim " drop down box, select "PACCAR Engine Claim, " then manually enter claim codes (Campaign #, Failure type, and SRT).

**Take-Off Parts Disposition: If engine damage has occurred, ship the oil filter cap to the Warranty Returns Center with ship code WP, otherwise, destroy the oil filter cap 30 days after the claim is paid.**

CLAIM CODING			
Failure Location:	045-011-015	Work Accomplished:	35
Failure Type:	700	Responsibility Code:	5
SRT Code:	<b>042-560</b> 0.3 hrs. Replace the oil thermostat <b>045-800</b> 0.2 hrs. oil filter cartridge – R&R – includes inspecting the bypass valve tabs	Claim Type:	F
Vendor Code:	E260	Campaign Field:	E260

## Parts

Parts are available from PACCAR Parts.

Quantity	Part Number	Description
1	2271135PE	Oil thermostat / oil filter cap kit

## Procedure

**Please follow your dealership's safety procedures and precautions to ensure the vehicle can be safely repaired and maintained.**

### Inspect oil filter and bypass valve retaining tabs

1. On the Engine Oil Module, remove the filter cap.
2. Remove the oil filter cartridge.
3. Carefully, without damaging the filter, inspect the oil filter cartridge pleats for debris, separation at the seam, or tears in the pleats. If significant debris is found, take photos. The oil filter will have small amounts of debris as by design function of the oil filtration system.
  - A replacement oil filter is not included with this repair.

Significant debris includes:

- Non-ferrous material
- Aluminum
- Irregularly shaped material

**Figure 2 Example of a filter with no significant debris**

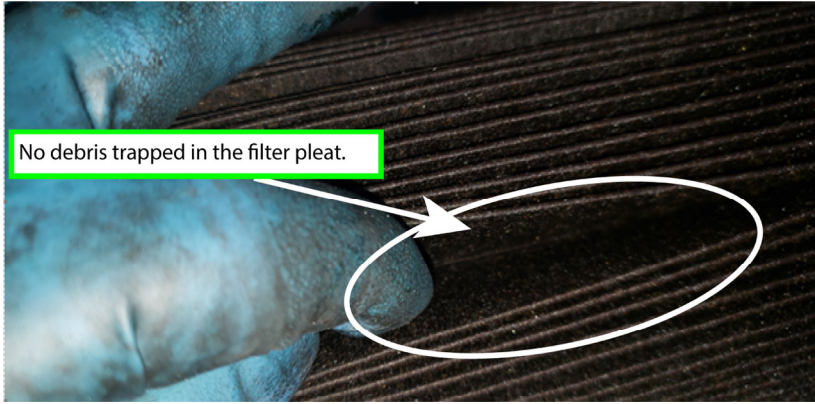
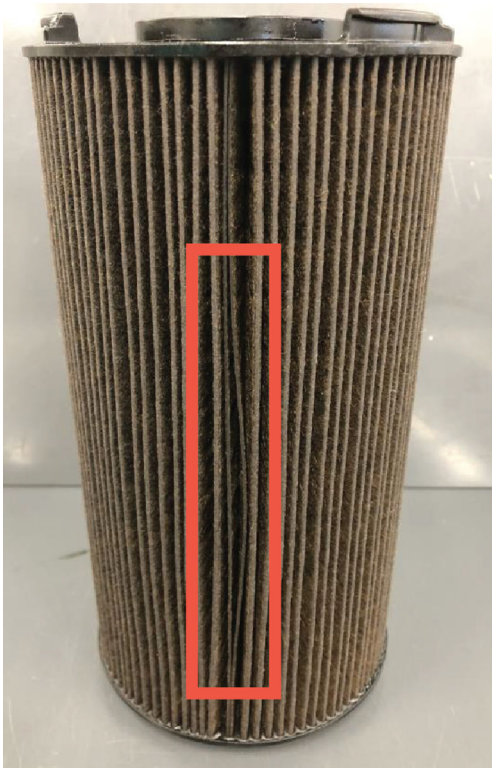


Figure 3 Example of a filter with significant debris

Large debris trapped in the filter pleat.



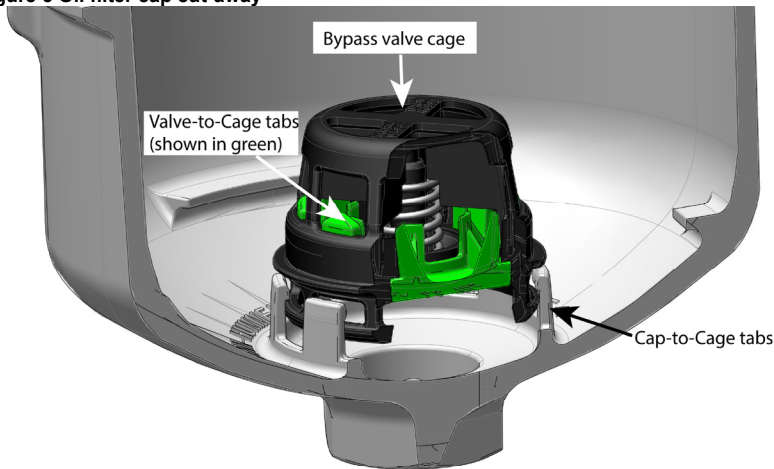
Figure 4 Example of a filter with a separated seam



4. Inspect the retaining tabs that hold the bypass valve cage to the filter cap and the tabs that hold the bypass valve to the cage. If any of them are broken, take clear photos.

TIP: Ensure the camera flash is on or use a flashlight to illuminate the bypass valve.

**Figure 5 Oil filter cap cut-away**



5. If there are no issues found, install the new oil filter cap with the original oil filter.
6. If any issues described below are found, start a TCS365 case and await instructions from the VSC. Provide the following information in the case:
  - if tabs are broken
  - if significant debris was found in the filter pleats
  - If a separated seam is found. In addition, take an oil sample and return the oil sample and filter to PTC.
  - If a damaged pleat is found. In addition, take an oil sample and return the oil sample and filter to PTC.
  - attach photos

### Removing thermostat, lubricating oil

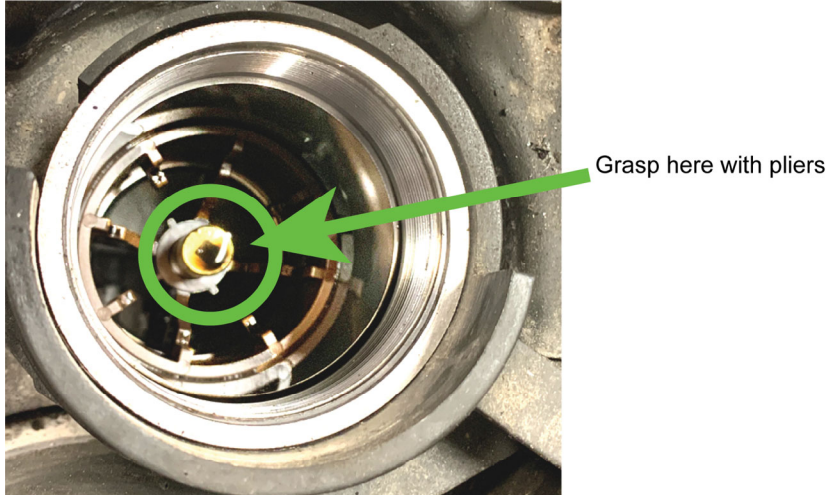
1. Remove the sealing plug with the sealing ring.

<b>i</b>	<b>NOTE</b>
<ul style="list-style-type: none"> <li>● Use a 3/4 in. drive 19 mm hex socket and 3/4 in. drive breaker bar</li> </ul>	

- The plug is spring preloaded
2. Remove the spring from the oil module.
  3. Use pliers to grasp the thermostat, then remove the thermostat and sleeve valve together.

<b>i</b>	<b>NOTE</b>
Removing the sleeve valve without holding the thermostat may cause the thermostat to separate from the valve and drop into the oil cooler.	

**Figure 6 Lubricating Oil Thermostat**



### Installing thermostat, lubricating oil

1. Fit the thermostat / sleeve valve assembly and spring.
2. Fit the sealing plug with a new sealing ring and tighten to the specified torque. (184 lb-ft, [250Nm])

<b>i</b>	<b>NOTE</b>
Use a 3/4 in. drive 19 mm hex socket and 3/4 in. drive torque wrench.	

### TCS365 Case Creation Guide

Follow this guide to create a TCS365 case for this bulletin to ensure the case is flowed to the appropriate personnel. A TCS365 case for this bulletin is only required if the following is found:

- A broken bypass valve
- Significant debris in the oil filter pleats

1. Open [TCS365](#) in Google Chrome or Microsoft Edge.
2. Select **Vehicle Support | Technical Assistance**.
3. Select **Case Type Powertrain Support** and **Case Category Engine Diagnostics**.
4. On the Powertrain Support page, fill in the following fields as follows and fill in the other fields as appropriate:
  - Subject: E260
  - Description: E260
  - Complaint/Verification Results: E260 Inspection
  - Did you perform the required steps: Yes
  - Did you attach a PDF log file: No
  - Warranty Dependent Case: No
  - Repairs and Parts Replaced: Photographed the oil filter bypass valve and/or oil filter cartridge pleats.
  - Diagnostic Details:
    - Photographed oil filter cartridge pleats and/or oil filter bypass valve retaining tabs.
    - Is there debris in the filter pleats?
    - Is the seam separated or are there damaged pleats?
    - Are there any broken bypass valve retaining tabs?
    - Upload File: Upload the oil filter pleat and retaining tab.

### Attachments

[Chassis list](#)

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Authored by: OF

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