

E296 - PACCAR MX Composite Oil Pan Leaks - Warranty Guide

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Number

E296

Description

Guidance on warrantable leaks on PACCAR MX Composite Oil Pans

Section

Engine - 45

Subject

PACCAR MX Composite Oil Pan Leaks - Warranty Guide

Date

8/8/2022

Condition

Visible oil leaks from PACCAR MX Engine Composite Oil Pans.

Chassis Affected

T660, T680, T680 NextGen, T800, T880, W900, and W990 chassis equipped with a PACCAR MX-13 or MX-11 engine and composite engine oil pan.

Action

INFORMATION ONLY

If a customer comes into your dealership and demonstrates the condition above, follow the procedures below to determine the repair path and warranty applicability.

- Identify oil pan leak locations
- Determine if the repair is warrantable
- Repair or replace pan as appropriate
- Include complete documentation for warrantable repairs

Parts

Parts are available from PACCAR Parts.

Quantity	Part Number	Description
1*	2022407	Plastic Oil Sump (MX-11)
1*	2154313	Plastic Oil Sump (MX-13)

* as necessary for specific chassis

Oil pan replacement is determined by the procedures below.

Background

This bulletin provides guidance on warrantable failures in the composite oil pan and when replacement of the pan is necessary.

Procedure

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

1. Identify oil pan leak locations.
2. Repair or replace pan as appropriate.
3. Determine if repair is **Warrantable** or **Not Warrantable**
4. If warrantable, include complete documentation with the warranty claim.



NOTE

Failure to follow this procedure may result in your warranty claim being denied or charged back.

PAN SURFACE #1



1. Leak Locations
 - Any exterior surface of the oil pan due to physical damage or impact
2. Repair
 - Replace the oil pan
3. **Not Warrantable**

PAN SURFACE #2





1. Leak Locations

- Pan surface #2 as shown above

2. Repair

- Replace the oil pan

3. **Warrantable**

For Warranty Claim

- Clearly Identify locations with a grease pen.
- Take clear photos.
- Include photos with the warranty claim.

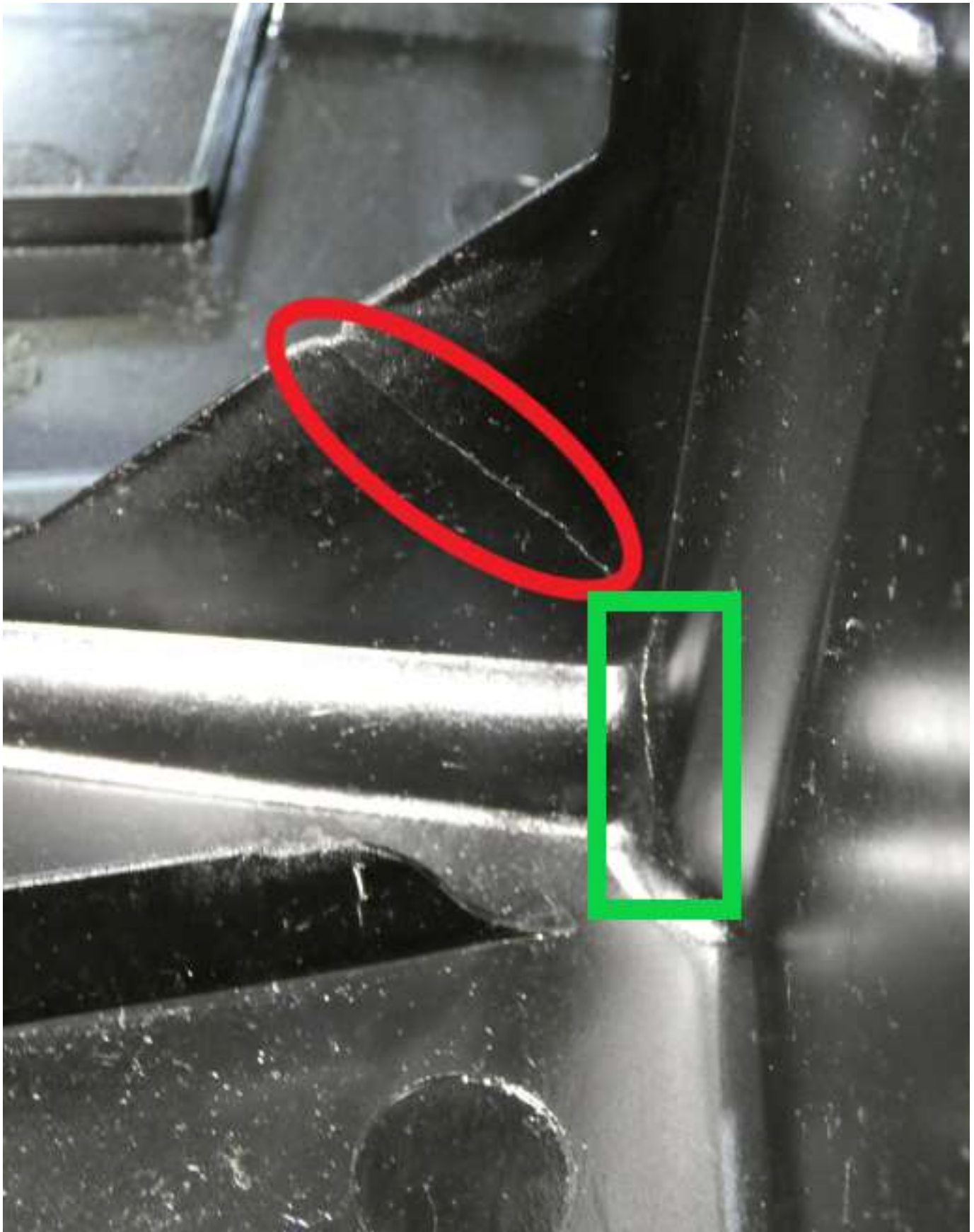
PAN SURFACE #3





1. Leak Locations
 - Pan surface #3 as shown above
2. Repair
 - Replace the oil pan
3. **Warrantable**
 - For Warranty Claim
 - Clearly Identify locations with a grease pen.
 - Take clear photos.
 - Include photos with the warranty claim.

INTERIOR PAN CRACKS



1. Crack Location 1 (gusset, red circle above)

- Does not cause leaks
- **Not Warrantable**
- No repair or replacement is necessary

2. Crack location 2 (radius, green rectangle above)
 - May cause a visible external leak
 - **Warrantable Failure**
 - Replace the oil pan
3. For Warranty Claim
 - Clearly Identify locations with a grease pen.
 - Take clear photos.
 - Include photos with the warranty claim.

GASKET OR BOLTS

1. Leak Locations
 - Gasket or mounting bolts
2. Repair
 - Do not replace the oil pan
 - Replace gasket
3. **Not Warrantable**

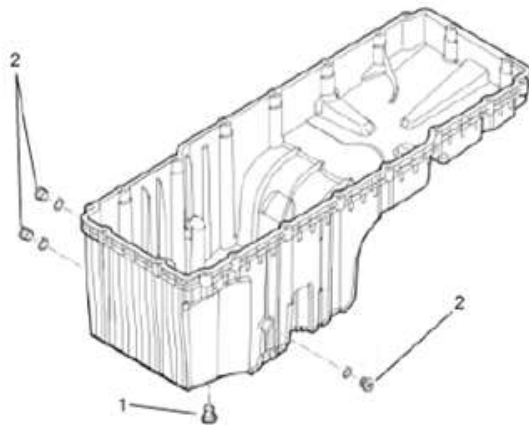
OIL PAN PLUGS

Oil Drain Plug for Composite Pan



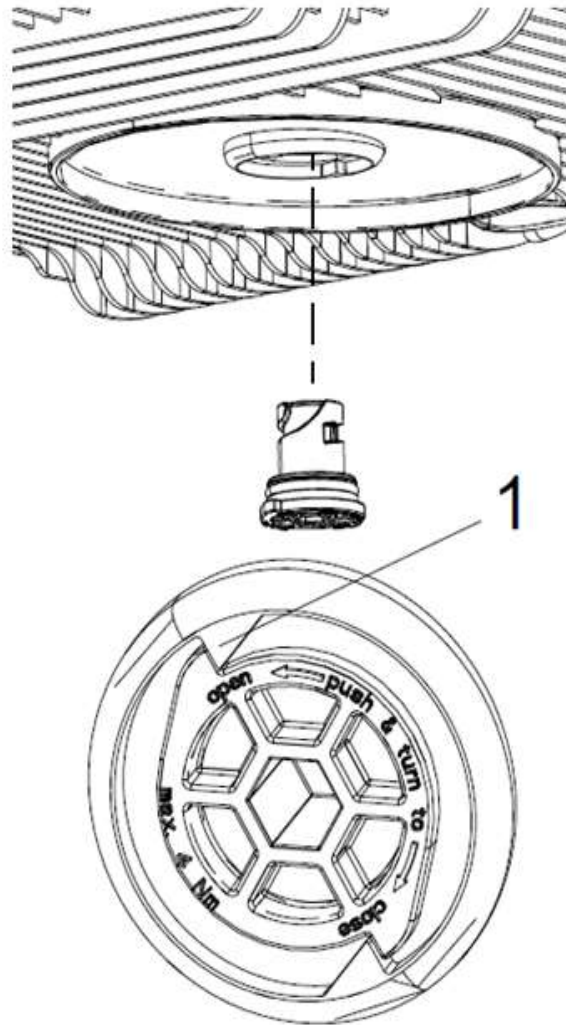
CAUTION

The drain plug is on the bottom of the oil pan. Do not use any other plug on the pan as a drain. Doing so may damage the pan, leak oil and damage the engine.



1. Drain Plug
2. Not drain plugs

Oil Pan Drain Plug Installation

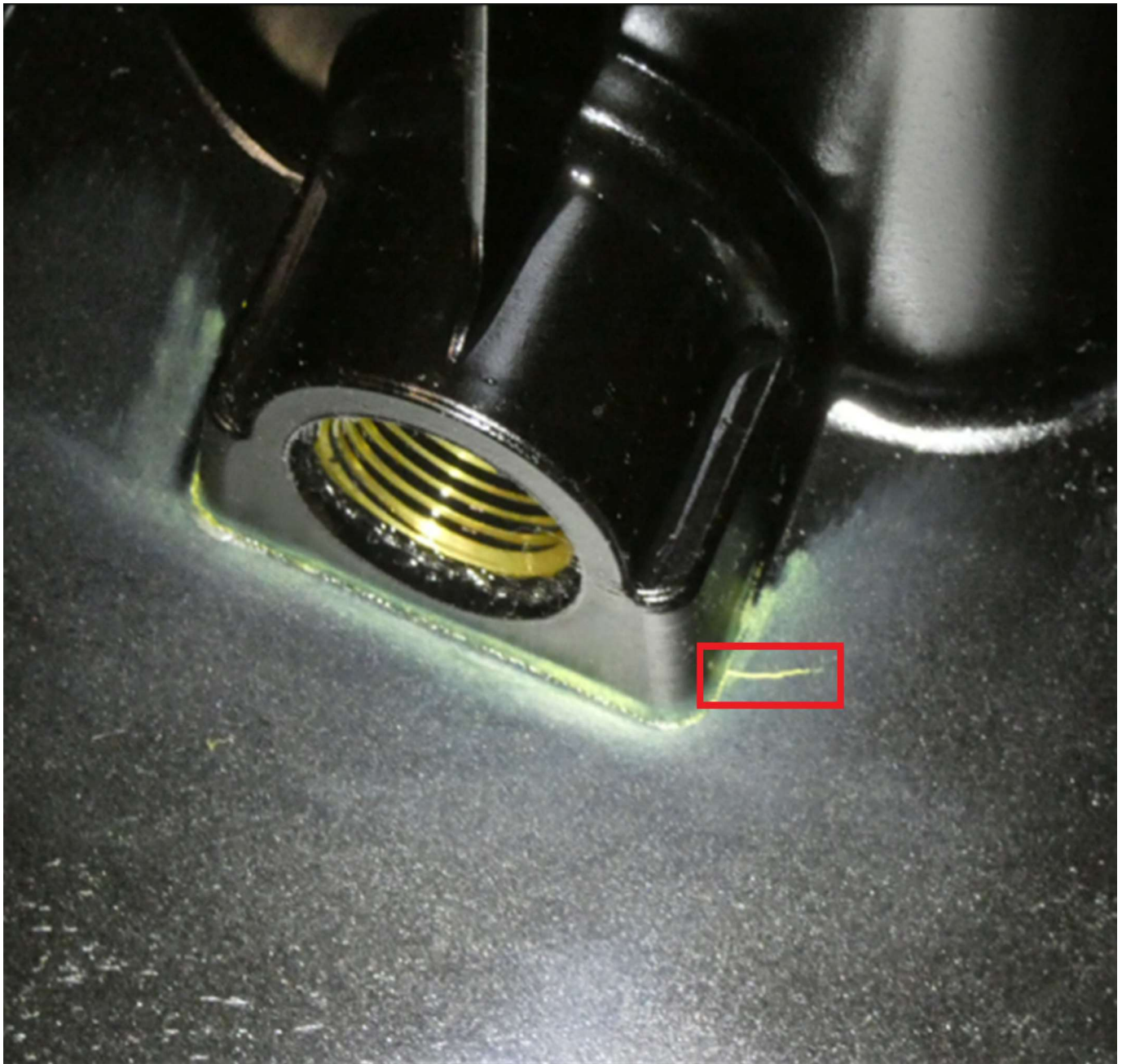


1. Stop

Y53-1199-1A1 (6/2022)

BRASS PLUGS

The crack in the image below is caused by repeated over-torquing of the Brass Plug.



1. Leak Locations

- Brass Plugs. Look for:
 - Witness marks that indicate a wrench has been used to remove them
 - Stripping of the brass insert bonded to the pan
 - Cracks around the brass insert from excess torque

2. Repair

- Replace oil pan

3. **Not Warrantable**

OIL DRAIN PLUG

1. Leak Locations

- O-ring missing

- Plug/O-ring assembly damaged
- Retention detent cannot be felt during installation
- Damage or signs of improper installation of the drain plug
 - Use the correct tool (8 mm Allen wrench) to remove or install the drain plug.
 - If the maximum torque is reached, the hexagonal tool will slip within the plug.
 - Torque the drain plug to its stop, do not over torque.

2. Repair

- Do not replace the oil pan
- Replace the oil drain plug

3. **Not Warrantable**

Authored by: JB3