



DAIMLER TRUCKS NORTH AMERICA AFTERMARKET

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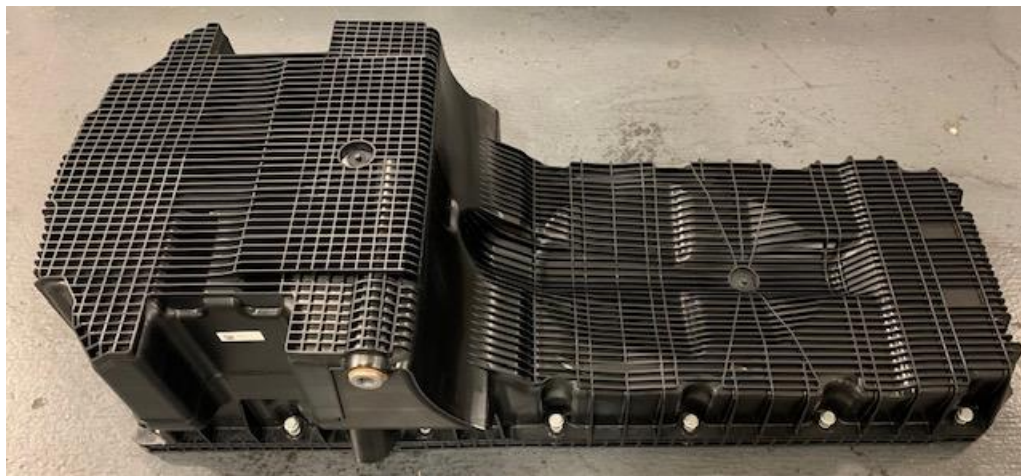
TO: Service Locations

FROM: Powertrain Service Engineering

SUBJECT: **DD13 Gen 5 Oil Pan Drain Plugs Leaking**

ISSUE

Some DD13 Gen 5 oil pans may experience an issue with an oil leak at the oil drain plugs. This concern is limited to oil pan part number DDE A4710109313. Photo of oil pan for part comparison:



CAUSE

This issue is due to incorrect drain plugs installed by the oil pan manufacturer.



REQUIRED ACTION

If there is an oil leak from the oil pan drain plugs, inspect the two drain plugs on the oil pan and replace any incorrect drain plugs. Replace the drain plug with kit part number DDE A4729900217 (drain plug and washer). Engine oil can be re-used for this repair if plug replacement is performed during the beginning of the oil life cycle.

REPAIR PROCEDURE**Replacement of the DD13 Gen 5 EK Oil Pan Drain Plugs**

Remove as follows:

1. Turn ignition OFF, apply parking brake, chock wheels, and perform any other applicable safety steps.

**CAUTION:****ELECTRICAL SHOCK**

To avoid injury from electrical shock, use care when connecting battery cables. The magnetic switch studs are at battery voltage.

2. Disconnect batteries.
3. Open the hood.
4. If necessary, remove the bumper for access. Refer to the Original Equipment Manufacturer (OEM) procedure.
5. Place a suitable drain pan, 47 L (50 qt) or more, under the oil pan.

NOTICE: Do not use any power or air tools on the oil drain plug while performing maintenance or repairs. These tools can damage the oil pan.

NOTE: The oil pan contains multiple plugs that can be used for various options and applications. The oil drain plug is the lowest plug on the oil pan.

NOTICE:

When required, discard fluids in accordance with Environmental Protection Agency (EPA) regulations.

NOTICE:

Engine oil can be re-used if it is not contaminated and has been properly maintained.

6. Carefully unscrew the oil drain plug and allow oil to drain out.
7. Carefully unscrew the oil drain plug from the opposite side of the oil pan.
8. Inspect both oil drain plugs for incorrect chamfer. Incorrect drain plug(s) should NOT be re-used. The oil drain plug seal washers are single-use parts.



9. Install the correct oil pan drain plugs with new seal washers into both sides of the oil pan. Torque the plugs to 45 N·m (33 lb·ft).

NOTICE: Do not add oil if the oil reading is between the crosshatch area on the dipstick. There are approximately 5.0 L (5.2 qt) from the add mark to the full mark. Overfilling the oil pan can cause engine damage.

NOTICE:

Engine oil can be reused if it is not contaminated and has been properly maintained.

10. Refill the engine with lubricating oil. [Refer to section "Engine Oil Capacities"](#) .



WARNING:

PERSONAL INJURY

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.

- Always start and operate an engine in a well ventilated area.
- If operating an engine in an enclosed area, vent the exhaust to the outside.
- Do not modify or tamper with the exhaust system or emission control system.



WARNING:

PERSONAL INJURY

To avoid injury before starting and running the engine, ensure the vehicle is parked on a level surface, parking brake is set, and the wheels are blocked.



WARNING:

ENGINE EXHAUST

To avoid injury from inhaling engine exhaust, always operate the engine in a well-ventilated area. Engine exhaust is toxic.

NOTICE: If oil pressure is still absent after approximately 10 seconds, stop the engine and determine the cause. Running the engine with no or low oil pressure can result in engine damage.

11. Start engine (key ON, engine ON) with the accelerator pedal released. Monitor the oil pressure gauge or indicator lamp. Keep the engine running at idling speed (less than 700 rpm) until the oil pressure reading is 70 kPa (10.2 psi) or more.

NOTICE: Do not add oil if the oil reading is between the crosshatch area on the dipstick. There are approximately 5.0 L (5.2 qt) from the add mark to the full mark. Overfilling the oil pan can cause engine damage.

NOTE: If the engine operating temperature is below 60°C (140°F), the engine must be on a level surface and then shut down for 60 minutes for an accurate oil level reading. Otherwise, the engine must be brought up to an operating temperature of 60°C (140°F), parked on a level surface and then shut down for 20 minutes for an accurate oil level reading.

12. Turn ignition OFF. Check oil level. If necessary, add oil, no more than 5.0 L (5.2 qt) at a time, up to the maximum fill level on the oil dipstick.

CLAIM PROCESS

Normal in-warranty procedures apply. Proactive removal of properly functioning parts is not allowed under warranty.

Component Code/VMRS = 045-013-006 Drain Plug - Engine Oil Pan

CONTACT INFORMATION

Please contact the Detroit Diesel Customer Support Center at 800-445-1980 or email csc@daimlertruck.com if you have any questions.