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Service Information Bulletin

SUBJECT	DATE
Engine Oil Leaks - Oil Dye Method	February 2014

Additions, Revisions, or Updates

Publication Number / Title	Platform	Section Title	Change
DDC-SVC-MAN-0084	DD Platform	Engine Oil Leaks - Oil Dye Method	New procedure for diagnosing engine oil leaks.
DDC-SVC-MAN-0184	EuroIV		



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2 Engine Oil Leaks - Oil Dye Method

NOTE: This test is only to be performed if an oil leak is present and a visual inspection of the engine did not pinpoint an oil leak path.

Table 1.

Proper Amount of Oil/Fuel Leak Detection Dye		
Chassis	Engine	Oil Dye Amount
Truck	DD13	66.5 mL (2.25 oz)
Truck	DD15/16	74 mL (2.50 oz)
Coach	DD13	74 mL (2.50 oz)

Possible Leak Points:

- Air Compressor
- Axial Power Turbine Gear Box
- Camshaft Housing Seal
- Cylinder Head Gasket
- Flywheel Housing
- Flywheel Housing Gasket
- Front Crankshaft Oil Seal
- Fuel Injector Harness O-rings
- High Pressure Fuel Injector Line Seals
- High Pressure Fuel Pump
- Oil Coolant Module
- Oil Drain Plug
- Oil Pan
- Rear Crankshaft Oil Seal
- Rocker Cover
- Turbocharger

Check as follows:

NOTE: When diagnosing an engine oil leak, the source and location of the leak **MUST** be positively identified prior to repair.

NOTE: For extremely small engine oil leaks, several hours can be required for the leak to appear.

1. Inspect the engine for any oil leaks. If oil leaks are present, record the location of the oil leak.
2. Steam clean the engine.
3. Run the engine to operating temperature.
4. Turn ignition ON (key ON, engine OFF). Remove the oil filler cap.
5. Using the table above, add the proper amount of J-28431-B Oil/Fuel Leak Detection Dye into the oil filler tube.
6. Install the oil filler cap.
7. Test-drive the vehicle for 15 minutes.

NOTE: If oil dye cannot be seen on the dipstick after the test drive, up to 14.8 mL (0.5 oz) of Oil/Fuel Leak Detection Dye can be added to the engine oil.

8. Turn the engine OFF. Using a black light and yellow/amber lens glasses, inspect the dipstick for oil dye.
9. Using a black light and yellow/amber lens glasses, inspect the engine for the source of the oil leak.