Daimler Trucks North America LLC

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WARRANTY DEPARTMENT
13400 Outer Drive West
Detroit, MI 48239-4001

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IMPORTANT WARRANTY INFORMATION

REF **14-040**
Effective 10/27/2014
Release 10/27/2014
SUBJECT Additional Detroit CLOs for the Heavy Duty Engine Platform

❖ Enhanced Detroit CLOs

In an effort to support the service network and streamline the claim submittal process, effective with claims filed on or after October 27, 2014, the Detroit Warranty Department is releasing additional Consolidated Labor Operations (CLOs). The CLO format allows Standard Repair Time (SRT) to be combined with Standard Diagnostic Time (SDT) for specific failure modes.

Each failure mode or symptom is detailed in the *Labor Description* field. Selecting the correct failure mode or symptoms option is critical when filing a warranty claim. The CLOs are based on the fault code or symptom and the repair path required to correct the complaint. Repair time could vary between chassis model and engine service model; please refer to the applicable Labor Time Guides (LTG) for appropriate times and included labor operations.

❖ CLO General Guidelines

Steam cleaning and repair verification could be included in the CLOs, depending on the failure mode. Repair verification that may be included in labor operations are:

- 132100 – Repair Validation
- 132200 – Engine Performance Test
- 062600 – Regeneration of the After Treatment Device (ATD) [Parked]

Admin time (939-6010A) is not included in the CLOs and needs to be submitted as a separate line item on the warranty claim.

Documenting the fault code/symptom, troubleshooting results, and repair path will assist in selecting the correct CLO for the failure and must be included in the claim narrative. Fault codes are also required, per Detroit Warranty Letter 14-W0-6.

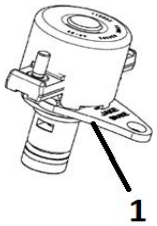
❖ New CLOs

CLOs based on fault codes or symptoms were created for the following components:

- Engine Brake Solenoid
- Crankcase Breather
- Oil Coolant Filter Module / Seal
- Injector Cup/ O-rings
- Diesel Exhaust Fluid (DEF) Dosing Unit – GHG14

❖ **Labor Operation**

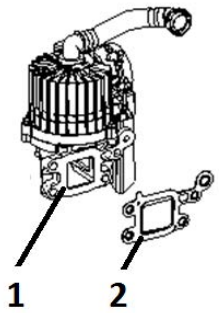
Engine Brake Solenoid



1. Engine Brake Solenoid

CLO Code	Description
#021514A1	# ENGINE BRAKE SOLENOID FAILURE, OPEN/SHORTED CIRCUIT, (FAULT CODES: 1072 FMI 4, 1072 FMI 5, 1073 FMI 4, 1073 FMI 5, 3597 FMI 4, OR 3598 FMI 4)
Summary: Includes time to access to the engine brake solenoid. Measure the resistance and voltages as required by the troubleshooting. Replace one engine brake solenoid.	
#021514C1	# ENGINE BRAKE SOLENOID FAILURE, (FAULT CODE 3711 FMI 31) – *EPA10 AND LATER ONLY*
Summary: Includes time check for a drifted DOC inlet temperature sensor. Test the ITV. Inspect/test intake and exhaust system for leaks. Start a parked regen to review the intake manifold pressure, engine brake solenoid command, and the actual fuel mass. Install a test MCM and attempt a parked regen. Review the actual fuel mass. Remove the rocker cover and inspect the rocker shaft for location of "TOP FRONT". Cut out cylinders one, two, and three and test the engine brake solenoid. Replace one engine brake solenoid. Perform a high idle parked regeneration to validate the repair.	
#021514E1	# ENGINE BRAKE SOLENOID FAILURE, POOR ENGINE BRAKE PERFORMANCE
Summary: Includes time to check for fault codes in all modules. Review clutch switch status. Check oil level in the engine. Perform the wastegate function test, if required. Measure air inlet restriction. Inspect/test for intake and exhaust system leaks. Inspect the turbo compressor wheel for damage. Perform a relative compression test using DiagnoticLink. Remove the rocker cover and inspect the rocker shaft for location of "TOP FRONT". Inspect the engine brake solenoids o-rings for damage. Activate the engine brake rocker actuator pistons. Check camshaft timing and valve lash. Replace both engine brake solenoids. Perform an engine performance test to validate the repair.	

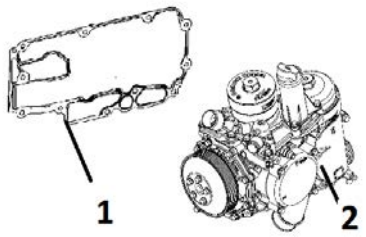
Crankcase Breather



1. Crankcase Breather
2. Crankcase Breather Mounting Gasket

CLO Code	Description
#018501X1	# CRANKCASE BREATHER LEAKING OIL
Summary: Includes removing the crankcase breather as described in the procedure. Clean the area before and after the repair. Perform a repair validation.	

Oil Coolant Filter Module / Seal

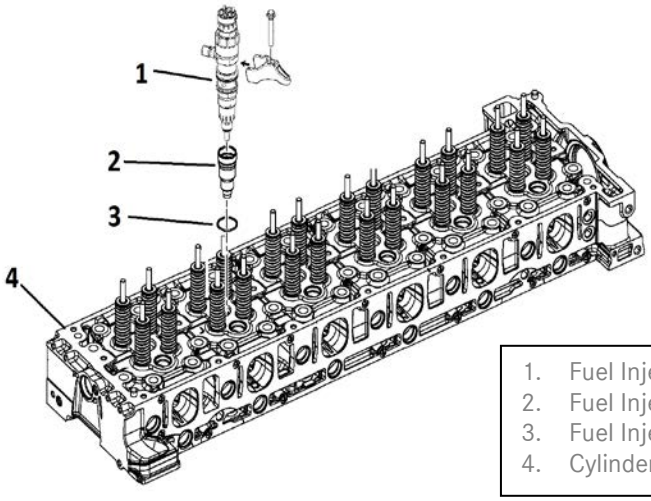


1. Oil Coolant Module Mounting Gasket
2. Oil Coolant Module

CLO Code	Description
#042001X1	# OIL COOLANT MODULE ASSEMBLY / MOUNTING SEAL LEAKING OIL

Summary: Includes removal and installation of the bumper. Drain and fill necessary fluids. Remove and install the EGR mixer assembly, radiator support rod, coolant thermostat, and coolant cross over pipe and other components described in the procedure. Clean the area before and after the repair. Perform a repair validation.

Injector Cup / Injector Cup O-rings



1. Fuel Injector
2. Fuel Injector Cup
3. Fuel Injector Cup O-Ring
4. Cylinder Head

CLO Code	Description
#012103B1	# INJECTOR CUP / O-RING LEAKING, COOLANT IN FUEL / FUEL IN COOLANT (BELOW ESN 47xxxxS00032840) – *DD15 EPA07 ONLY*

Summary: Includes time to perform the published troubleshooting for coolant in fuel/fuel in coolant to identify the fuel injector cup o-rings are leaking. Replace all six fuel injector cup o-rings, coolant collector to cylinder head seals, coolant lines (air compressor to fuel filter module, fuel filter module to oil coolant module, cylinder block to air compressor), fuel filters, and coolant filter. Reseal the fuel injectors. Remove the surge tank for cleaning or replacement. Time to drain or pump coolant out of the fuel. Flush the cooling system twice. Additional reference material: 13TS22REV.

Note:

- Includes bumper and rain tray removal, if required.

#012103B2	**# INJECTOR CUP / O-RING LEAKING, COOLANT IN FUEL / FUEL IN COOLANT (ABOVE ESN 47xxxxS00032840) – *EPA07 DD13, EPA07 DD15 ONLY***

Summary: Includes time to perform the published troubleshooting for coolant in fuel/fuel in coolant to identify the fuel injector cup o-rings are leaking. Replace all six fuel injector cup o-rings, coolant line (air compressor to fuel filter module, fuel filter module to oil coolant module, cylinder block to air compressor), fuel filters, and coolant filter. Reseal the fuel injectors. Remove the surge tank for cleaning or replacement. Time to drain or pump coolant out of the fuel. Flush the cooling system twice. Additional reference material: 13TS22REV.

Notes:

- Excludes replacing the coolant collector to cylinder head seals.
- Includes bumper and rain tray removal, if required.

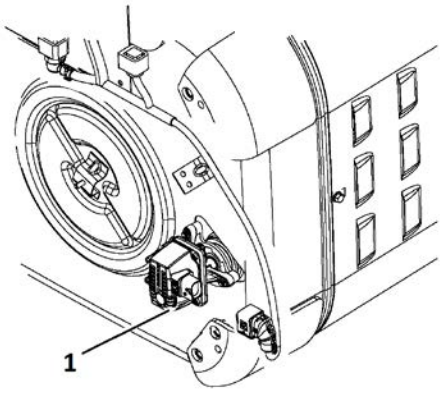
#012103B3	**# INJECTOR CUP / O-RING LEAKING, COOLANT IN FUEL / FUEL IN COOLANT (ABOVE ESN 47xxxxS00032840) – *EPA10 and Later, ALL DISPLACEMENTS***

Summary: Includes time to perform the published troubleshooting for coolant in fuel/fuel in coolant to identify the fuel injector cup o-rings are leaking. Replace all six fuel injector cup o-rings, fuel filters, and coolant filter. Reseal the fuel injectors. Remove the surge tank for cleaning or replacement. Time to drain or pump coolant out of the fuel. Flush the cooling system twice. Additional reference material: 13TS22REV.

Notes:

- Excludes replacing the coolant collector to cylinder head seals and coolant lines.
- Includes bumper and rain tray removal, if required.

DEF Dosing Unit – GHG14



1. DEF Dosing Unit

CLO Code	Description
#061091A1	**# ATS-DEF DOSING UNIT REPLACEMENT – GHG14 (FAULT CODE 4374 FMI 0 UNDER PRESSURIED DEF SYSTEM)**

Summary: Includes time to remove chassis components, such as steps and/or fairings to access the DEF dosing unit. Inspect/test for contaminates in the DEF System. Compare the DEF pressure reading to the barometric pressure reading key on, engine off. Perform multiple SCR ADS Self-Checks, as required by diagnostics. Performing a high idle parked regeneration to validate the repair for regulatory fault codes.

#061091B1	**# ATS-DEF DOSING UNIT REPLACEMENT – GHG14 (FAULT CODE 4374 FMI 1 OVER PRESSURIZED DEF SYSTEM)**
Summary: Includes time to remove chassis components, such as steps and/or fairings to access the DEF dosing unit. Inspect the DEF dosing unit electrical connector for damage. Disconnect the DEF return line from the DEF dosing unit and perform an SCR ADS Self Check. Perform multiple SCR ADS Self-Checks, as required by diagnostics. Perform a high idle parked regeneration to validate the repair for regulatory fault codes.	
#061091C1	**# ATS-DEF DOSING UNIT REPLACEMENT – GHG14 (FAULT CODE 4364 FMI 1, 18 SCR NOX COVERSION EFFICIENCY)**
Summary: Includes time to remove chassis components, such as steps and/or fairings to access the DEF dosing unit. Check for other fault codes in the MCM or ACM. Inspect/test for contaminates in the DEF System. Test the quality of the DEF. Perform a DEF quantity test. Perform a high idle parked regeneration to validate the repair for regulatory fault codes.	