



Solution

Title (customer effect) Volvo Chassis - Diagnostic Trouble Code (DTC) P2459 Lighting The Malfunction Indicator Lamp (MIL); Possible Frequent Regeneration Requests - OBD15 And Newer Chassis

Cause OBD15 and newer chassis may log DTC P2459 - Diesel Particulate Filter Regeneration Frequency (Bank 1). P2459 may log with or without frequent regeneration requests. Guided Diagnostic steps may complete with No Fault Found.

Solution

Overview

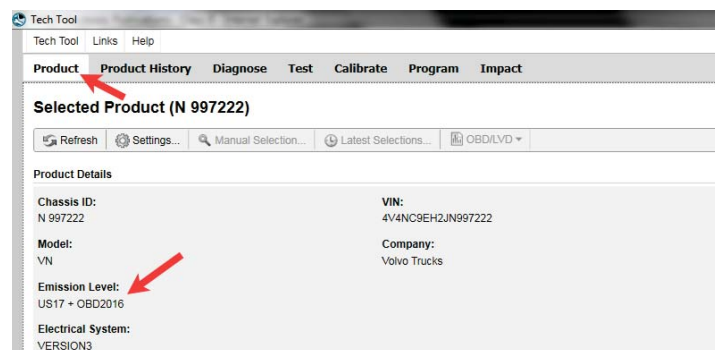
OBD15 and newer chassis may log DTC P2459 during operation. The diagnostic process that this DTC sets for is the monitor of how often regenerations are requested by the Engine Control Module (EMS), and is intended to determine when the Diesel Particulate Filter (DPF) needs to be serviced or indicate a problem causing rapid soot accumulation. Chassis experiencing repeat occurrences of P2459 are most commonly units operating in applications that involve any of the below:

- Frequent stop-and-go operation (food service deliveries, for example)
- Local operation with little to no drive time at stable highway speeds or short overall distance traveled at one time
 - Passive regeneration only occurs when exhaust temperatures are able to reach the correct level and are sustained at that level while the chassis is in motion. These conditions are normally only seen during highway operation.
- Operation requiring an extended amount of idling or operation at low speeds (Paving and construction; mining)

Repair

Verify the chassis emissions level

- Details can be found in the Product Details box on the Product tab in PTT as seen below:



For OBD15 (Commonly Year Model 2016) Chassis ONLY:

- Software improvements have been released to address this code. If P2459 is present, software should be checked and updated as necessary.
- Two modules are affected by this update and should be reprogrammed in the following order:
 1. Engine Control Module (EMS)
 2. Aftertreatment Control Module (ACM)
- If there are other codes and symptoms present or the code(s) continue to return frequently following the software update, normal diagnostic procedures should be followed to determine the issue.

For OBD16 and Newer Chassis:

- EMS Software should be verified to be current
- The DTC readout and customer complaint should be reviewed to ensure there are no other codes in the EMS or symptoms reported that may be related to P226C
- Any accompanying codes or symptoms should be diagnosed with normal procedures.

Solution visibility

Dealer distribution

Function(s)/component(s) affected

Function affected

DPF , 1 1 0 EMS , MID 128 – EMS , EECU , Diagnostic tool

Function Group

Function Group

254 catalytic converter; exhaust emission control equipment , 258 emissions after-treatment

Customer effect

Main customer effect

regeneration , calibration/programming/pairing/missing operation , diagnostics /methodology , efficiency/abnormal behavior , fault code/display

Lights/Messages on
information display

- - - , - - / - -

Fault code(s)

OBD 2013 Diagnostic
Trouble Codes

P2459

Conditions

Vehicle operating mode

when driving , when stationary

Frequency of occurrence of
problem

always

Road conditions

city driving

Administration

Author

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Engine family	
Engine family	11L Engine , 13L Engine , 16L Engine
Emission Standard	
Emission Standard	US16 , US15