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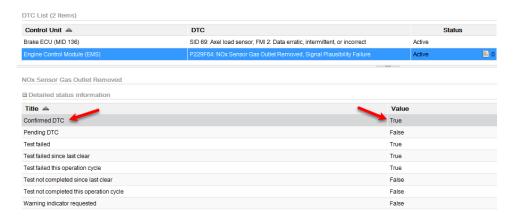
Solution K01474232 Thursday, May 28, 2020 1:50:36 PM CEST

** SOLUTION **

Title	Diagnostic Trouble Code (DTC) P2042-01: Diagnostic Instructions - US17+OBD16 Emissions And Newer
Mack Models	
Mack Model	LR , MRU - TerraPro , TE - TerraPro , AN - Anthem , CHU - Pinnacle, Axle back , CXU - Pinnacle, Axle front , GR - Granite , GU - Granite , PI - Pinnacle
Volvo Models	
Volvo Model	VN , VNL , VNR , VNX , VAH , VHD
Emission Standard	
Emission Standard	US17+OBD16, US17+OBD18, US17+OBD19
Engine family	
Engine family	11L Engine , 13L Engine , MP7 , MP8
** SOLUTION **	
Cause	To be read prior to replacing any parts. Additional diagnostic instructions for addressing DTC P2042-01 on US17 emissions level vehicles.
Solution	P2042-01 is an evaluation of the DEF Pump temperature sensor. When battery voltage is low and both ambient air temperature and DEF tank temperature are below 32 °F (0 °C), this diagnostic logs a fault, even when there is no problem with the DEF pump temperature sensor.

If a vehicle has this code logged on a DTC Readout:

- Review the Detailed Status Information for the relevant code on the DTC Readout.



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- If Confirmed DTC is TRUE:
 - Proceed with diagnostics for the code in Premium Tech Tool.
 - If diagnostic steps in PTT do not determine an external issue (wiring, power, etc.) and advises to replace the pump: **DO NOT REPLACE THE PUMP.**
 - Clear the code and release the vehicle.
- If Confirmed DTC is FALSE:
 - DO NOT troubleshoot the code.
 - If no other codes are present that require diagnosis, clear the DTC and release the vehicle.

This issue is expected to be addressed in a future software update, and this solution will be updated when more information is available.

Internal comments (BO)

If P2042-01 is confirmed (we have seen very small percentage of trucks logging the code had MIL, <5%), we would like to get P1H6V parameter logged with our regular panel for 2-3 minutes.

Key ON 15 seconds, start idle for 30 seconds, Key Off 15 seconds Repeat 2 to 3 times.

Expected to see P1H6V (DEF pump temperature) to read something other than 419F (default) atleast for few seconds.

Contact NATARAJ BHAT if there is any doubt. **DO NOT RECOMMEND DEF PUMP CHANGE.**

Function(s)/component(s) affected	
Function affected	DEF Dosing
Customer effect	
Main customer effect	fault code/display
Administration	
Author	UT0031H
Dealer ID	UT0031H
Last modified by	A241298
Creation date	23-03-2020 14:03

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