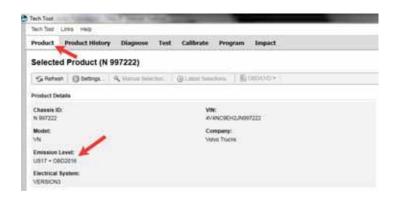




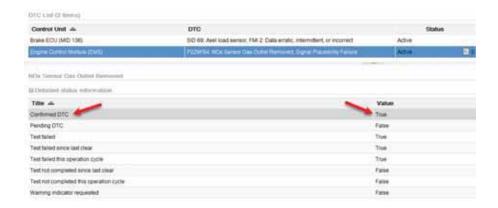
NA_MACK_Vehicle_Range

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NA_MACK_Vehicle_Ran ge	LR, LEU, MRU, Conventional, CHU, CXU, GU, M748, Granite, TD
NA_VOLVO_Vehicle	e_Range
NA_VOLVO_Vehicle_Ra nge	VNL, VNM, VHD, VAH
Engine family	
Engine family	11L Engine, 13L Engine, 16L Engine, MP7, MP8, MP10
Emission Standard	
Emission Standard	US16, US15
** SOLUTION **	
Title (customer effect)	Diagnostic Trouble Code (DTC) P2698, Diagnostic And Repair Information - US14+OBD15 And US14+OBD16 (Commonly Model Years 2016 And 2017)
Cause	Chassis may generate DTC P2698 with no physical symptoms present.
Solution	DO NOT replace any components for this code unless diagnostic steps in this article reveal that a specific component is the issue.

- Verify the chassis emissions level and ensure that the vehicle is within the applicable range for this solution.
 - Details can be found in the Product Details box on the Product tab in PTT as seen below:



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



- If Confirmed DTC is TRUE: Proceed with diagnostics
- If Confirmed DTC is **FALSE**: Disregard and focus on other symptoms or DTCs relevant to the complaint.
- P2698 typically logs with confirmed status for the following reasons:
 - Exhaust gas temperatures
 - · Aftertreatment Hydrocarbon Injector (AHI, Seventh Injector) nozzle low flow
 - AHI Module function
 - Diesel Oxidation Catalyst (DOC) function

Diagnosis

Any code pointing specifically to one or more of the components in the above list should be diagnosed **FIRST**. P2698 is likely a symptom of these codes, not the source.

- 1. Check Temperature Sensor readings with the engine and exhaust completely cooled.
 - All three temperature readings should be within 5 °F (3 °C) of one another.
- 2. Start the engine and watch all three temperature sensor readings during warmup.
 - Expected behavior is for DOC Inlet (T1) temperature to rise first, followed by the Diesel Particulate Filter (DPF) Inlet (T2), then DPF Outlet (T3).
 - Once reaching normal idle from a cold start, temperatures should settle with DOC Inlet temperature the highest, followed by DPF Inlet, and DPF Outlet the lowest.
- **3.** Check AHI functions using Operation 2545-08-03-02 Exhaust Aftertreatment Diagnostics, located under the Test tab in Premium Tech Tool (PTT).
 - Perform Test B and verify correct flow through the 7th Injector nozzle.
 - Perform Test D to confirm the AHI module is functioning correctly.
- 4. If there is no fault found, the code count is low, and there are no other codes present that could be causing P2698 to log clear the code and release the truck.
- **5.** If the chassis has been in for the same fault <u>in confirmed status</u> previously please create an eService case.
 - Reference this solution's number in the description.

quick visit on cases where repeat failure is obse	rved.
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	quick visit on cases where repeat failure is observed.
Solution visibility	Dealer distribution
Function(s)/compone	
Function affected	exhaust, 110 EMS, 210 ACM, Diagnostic tool
Customer effect	
Main customer effect	regeneration, diagnostics/methodology, fault code/display
Lights/Messages on information display	⚠Driver's information warning pictogram
Fault code(s)	
OBD 2013 Diagnostic Trouble Codes	P2698
Conditions	
Vehicle operating mode	when driving, when stationary
Frequency of occurrence of problem	random
Administration	
Author	UT0031H
Dealer ID	UT0031H
Last modified by	RU4469V
Creation date	09-04-2018 16:04
Date of last update	19-04-2018 19:04
Review date	01-01-2019 00:01
Status	Published
NA_Reviewer	Nataraj Bhat
NA_Author_Group	GTT