



Volvo Models

Volvo Model VN3 , VNL , VNM , VHD , VAH

Engine family

Engine family 11L Engine , 13L Engine , 16L Engine

Emission Standard

Emission Standard US16 , US15

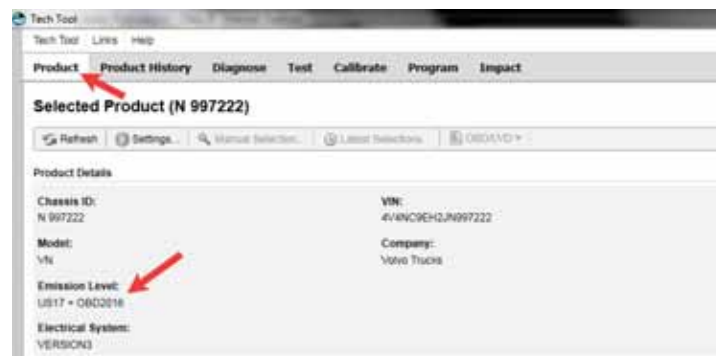
**** SOLUTION ****

Title Volvo Chassis - Diagnostic Trouble Code (DTC) P0422 Lighting The Malfunction Indicator Light (MIL) - **US14+OBD15 And US14+OBD16 Emissions, Common Model Years 2016 And 2017**

Cause US14+OBD15 and US14+OBD16 (Commonly Model Year 2016 and 2017) chassis may log DTC P0422. It is possible that the code is generated due to a software issue, resulting in diagnosis finding no fault.

Solution **Verify the chassis emissions level**

- 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.

Control Unit	DTC	Status
Brake ECU (MD 136)	SID 69: Axel load sensor, FM 2: Data erratic, intermittent, or incorrect	Active
Engine Control Module (ECM)	P229F6: NOx Sensor Gas Outlet Removed, Signal Plausibility Failure	Active

Title	Value
Confirmed DTC	True
Pending DTC	False
Test failed	True
Test failed since last clear	True
Test failed this operation cycle	True
Test not completed since last clear	False
Test not completed this operation cycle	False
Warning indicator requested	False

Software improvements have been released for both emissions levels to address this DTC. Field Service Bulletins with information and instructions have been published for each emissions level. Both FSBs can be found under the Service tab in [Impact](#), [Function Group 284](#). The articles can also be searched for by Title. Refer to the chart below for the correct bulletin information:

Emissions Level (Model Year)	Field Service Bulletin
US14+OBD15 (2016)	FSB 284-064 Engine Control Module (ECM) and Aftertreatment Control Module (ACM), Reprogramming
US14+OBD16 (2017)	FSB 284-065 Engine Control Module (ECM) and Aftertreatment Control Module (ACM), Reprogramming

If the Bulletin does not appear when searched with either VIN or Chassis information entered, search by model:

1. Clear any chassis information from the Search box.
2. Select or enter the applicable model.

The screenshot shows a search interface with several input fields: 'Chassis series', 'Chassis No.', 'VIN', 'VIN', and 'Function group'. A red arrow points to the second 'VIN' dropdown menu, which is currently open, indicating that the user should select a model from this list.

3. Make sure Title is selected in the Search By field. Enter the correct Bulletin title in the text entry field.

Additional search values ▾

Search by:

Titles ↩

FSB 284-065 ↩

4. Press the Search button. The operation will appear in the results window.

Grps	Title	Info type	ID/Operation
284	FSB 284-065, Engine Control Module (ECM) and Aftertreatment Control Module (ACM), Reprogramming	Repair	2841.22.09-17

5. Select the correct vehicle configuration from the list that appears as shown below:

FSB 284-065, Engine Control Module (ECM) and Aftertreatment Control Module (ACM), Reprogramming

Description	ID	Date
COMP04, ENG-VE11, E08D-U16, Assembly Date 2016-01-01 - 2016-12-31		2806/2016
COMP04, ENG-VE13, E08D-U16, Assembly Date 2016-01-01 - 2016-12-31		
COMP04, ENG-VE16, E08D-U16, Assembly Date 2016-01-01 - 2016-12-31		
NAH, ENG-VE11, E08D-U16, Assembly Date 2016-01-01 - 2016-12-31		
NAH, ENG-VE13, E08D-U16, Assembly Date 2016-01-01 - 2016-12-31		
NAH, ENG-VE16, E08D-U16, Assembly Date 2016-01-01 - 2016-12-31		
VND, ENG-VE11, E08D-U16, Assembly Date 2016-01-01 - 2016-12-31		
VND, ENG-VE13, E08D-U16, Assembly Date 2016-01-01 - 2016-12-31		
VND, ENG-VE16, E08D-U16, Assembly Date 2016-01-01 - 2016-12-31		
VN, ENG-VE11, E08D-U16, Assembly Date 2016-01-01 - 2016-12-31		
VN, ENG-VE13, E08D-U16, Assembly Date 2016-01-01 - 2016-12-31		
VN, ENG-VE16, E08D-U16, Assembly Date 2016-01-01 - 2016-12-31		

If software is current and the code is present, the code confirmed status should be verified to be TRUE as shown above before continuing diagnosis.

- Codes and symptoms related to P0422 should be diagnosed prior to P0422.

NA_Sister solutions	K72511005
Campaign code	FSB284-064, FSB284-065
Solution visibility	Dealer distribution
Function(s)/component(s) affected	
Function affected	exhaust , Diagnostic tool
Function Group	
Function Group	254 catalytic converter; exhaust emission control equipment , 258 emissions after-treatment , 284 control system, fuel supply
Customer effect	
Main customer effect	regeneration , diagnostics/methodology , efficiency/abnormal behavior , fault code /display
Fault code(s)	
OBD 2013 Diagnostic Trouble Codes	P0422
Conditions	
Vehicle operating mode	when driving , when stationary

Frequency of occurrence of problem always

Administration

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Status Published

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Number of scores 2
