

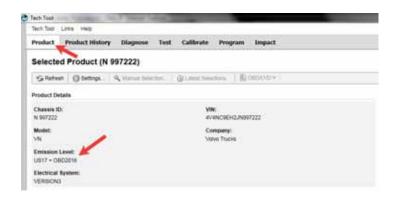
Solution K14122525 Thursday, July 5, 2018 4:37:22 PM CEST

Volvo Models

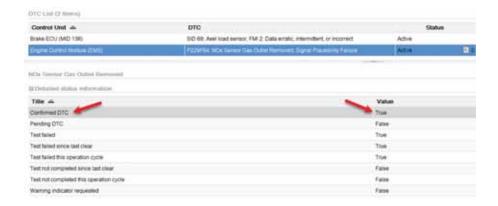
Volvo Model	VNR, VNX, VNL, VHD, VAH
Engine family	
Engine family	11L Engine, 13L Engine
Emission Standa	rd
Emission Standard	US17 GHG
** SOLUTION **	
Title	Volvo Chassis - Vehicles Equipped With A Vertical Selective Catalytic Reduction (SCR) System - Diagnostic Trouble Codes (DTC) P1031 With Possible P24DA Lighting The Malfunction Indicator Lamp (MIL) - US17+OBD16 (GHG17, Common Rail Fuel System) Emissions, Commonly Model Year 2018
Cause	Fault Code P1031 - Particulate Matter (PM) Sensor Clogged Tip may occur in GHG17 vehicles that are equipped with a vertical SCR catalyst. P1031 may be accompanied by P24DA - PM Sensor Exhaust Sample Error. When the Confirmed DTC status is checked in Detailed Fault Information from the Diagnose screen in Premium Tech Tool (PTT), status will show True.
Solution	DO NOT Replace the PM sensor for P1031 and/or P24DA prior to performing the steps below.

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.

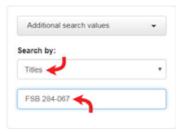


Once the chassis is confirmed to be US17+OBD16 or US17+OBD18:

- Software improvements have been released to address this code.
- Refer to FSB 284-067 Engine Control Module (EMS) and Aftertreatment Control Module (ACM), Reprogramming.
 - The bulletin can be found under the Service tab in Impact by searching for either the FSB number, or by reviewing the articles under Function Group 284.
 - If the article 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 VN as the model.



3. Make sure Title is selected in the Search By field. Enter "FSB 284-067" in the text entry field.



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



5. Mutiple article choices will appear. Find the Operation for the correct Chassis.

Note: It is possible that more than one choice will have the same title (as shown below). Despite having the same title, the Operations are different and should be reviewed to locate the correct procedure.



6. Following software updates, perform Operation 2589-08-03-17 After-treatment Particulate Sensor, Diagnostic Monitor found under the Test tab in Premium Tech Tool (PTT) to verify that there are no further issues.

If software is current according to the bulletin, refer to CBR Solution <u>K47547856</u> for further information.

If other symptoms or related codes are present, normal diagnostics will need to be performed to determine the cause.

NA_Sister solutions	K00527512, K59554255, K47547856
Campaign code	FSB284-067
Solution visibility	Dealer distribution
Function(s)/compon	ent(s) affected
Function affected	FSB , DPF , SCR , 1 1 0 EMS , 2 1 0 ACM , 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	$soot\ ,\ calibration/programming/pairing/missing\ operation\ ,\ diagnostics/methodology\ ,\ f$ ault code/display
Lights/Messages on information display	⚠ Driver's information warning pictogram
Fault code(s)	
OBD 2013 Diagnostic Trouble Codes	P1031, P103100, P24DA
Conditions	

Frequency of occurrence of problem	random	
Administration		
Author	UT0031H	
Dealer ID	UT0031H	
Last modified by	RU4469V	
Creation date	27-04-2018 16:04	
Date of last update	18-06-2018 15:06	
Review date	31-03-2019 00:03	
Status	Published	
NA_Reviewer	ut0031h	
NA_Author_Group	GTT	