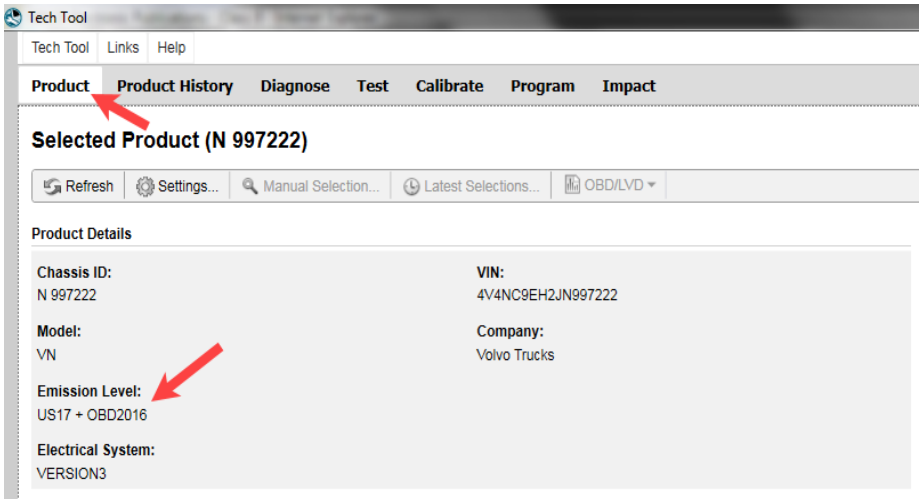
Volvo Chassis - - Diagnostic Trouble Codes (DTC) P1031 With Possible P24DA -

Internal Content

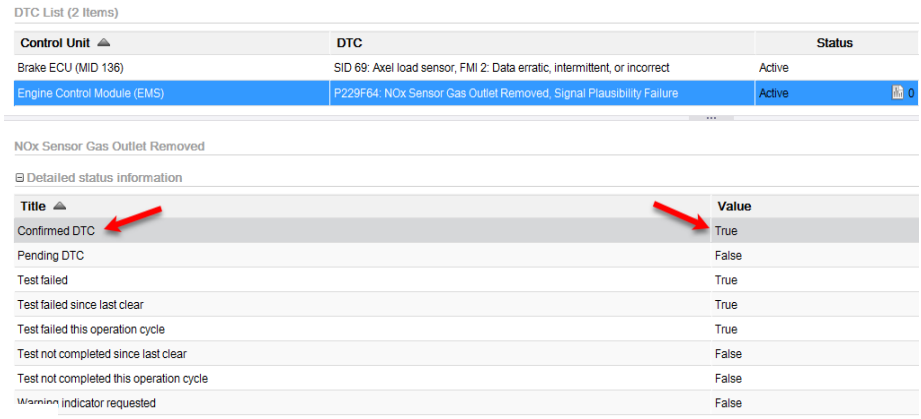
DO NOT Replace the PM sensor for P1031 and/or P24DA prior to performing the steps below.

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.



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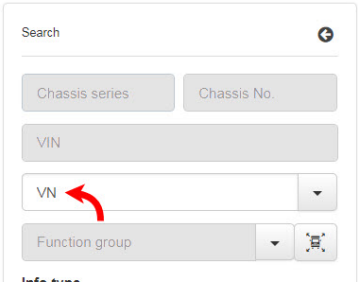
Once the chassis is confirmed to be US17+OBD16 or US17+OBD18:

- Software improvements have been released to address this code.
- Refer to FSB 284-067 Engine Control Module (EMS) and Aftertreatment Control Module (ACM), Reprogramming.

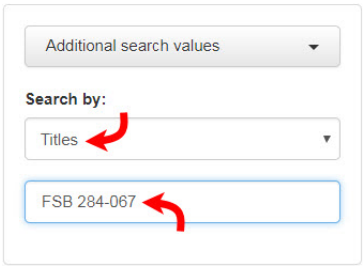
• The bulletin can be found under the Service tab in Impact by searching for either the FSB number, or by reviewing the articles under Function Group 284.

• 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.

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○ **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 **CBR-277** for further information.

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

Tags

k14122525 p1031 p1031-00 p24da-00 p24da00 p103100

Live UI **ed links and attachments** **Feedback**

No links or attachments available

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to help improve the content of this article

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Help

duct History | Diagnose | Test | Calibrate | Program | Impact

tion and click Start

y function

l system
t and exhaust system
0-08-03-02 Boost pressure, test
0-08-03-03 Response, test
0-08-03-05 Intake and Exhaust Systems, Checks
0-08-03-02 Engine Brake Function
0-08-03-03 Warm Hold Function
5-08-03-02 Exhaust Aftertreatment Diagnostics
9-08-03-02 Exhaust Aftertreatment System, Service Regeneration
5-08-03-04 Exhaust Aftertreatment System Logged Data
9-08-03-03 NOx Conversion
1-08-03-02 Variable Geometry Turbo Function
4-08-03-01 SCR System, forced heating
9-08-03-05 Aftertreatment selective catalytic reduction (SCR) system
9-08-03-06 SCR System Drain
9-08-03-17 Aftertreatment Particulate Sensor, Diagnostic Monitor
9-08-03-18 Exhaust Aftertreatment System Analysis
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2589-08-03-17 Aftertreatment Particulate Sensor, Diagnostic M

☐ Run the operation in simulation mode

Purpose

Check that the aftertreatment particulate sensor functions properly

Components to be tested are:

Aftertreatment particulate sensor

Note: This operation should only be used in the following circumstances

- Reference from diagnostic/service information or Technical support
- Relevant DTCs: **P2002**

Description

- This test is used to heat the exhaust aftertreatment system in order to activate the particulate
- During the heating phase, the aftertreatment fuel dosing is increased together with engine sp
- Once the target temperature is reached, the sensor begins a self-test
- After several minutes, the sensor is evaluated by the test

Note: Operation may take approximately 30 minute(s) to complete

Start >

VIN: 4V4NC9EHXJN884960 Work Order: CBR1