



**** SOLUTION ****

Title Volvo Chassis - **Equipped With A D13M Engine** - Diagnostic Trouble Code (DTC)
P04DB - Crankcase Ventilation Disconnected; **US17+OBD16 And US17+OBD18**
Emissions (Common Rail Fuel System), Model Years 2018 And 2019

Volvo Models

Volvo Model VN , VNL , VNM , VNR , VNX , VAH , VHD

Emission Standard

Emission Standard US17+OBD16 , US17+OBD18

Engine family

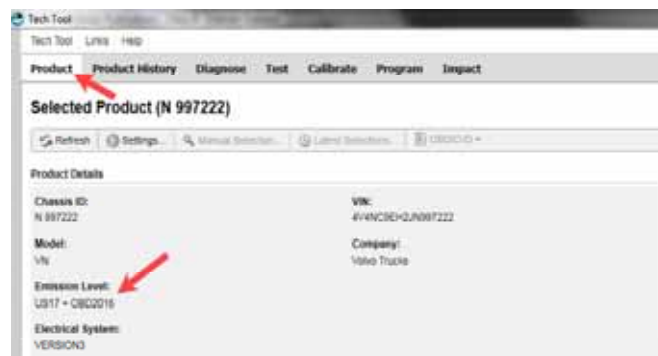
Engine family 13L Engine

**** SOLUTION ****

Cause No fault found (NFF) when diagnosing a GHG17 (US17) chassis Diagnostic Trouble Code (DTC) P04DB - Crankcase Ventilation Disconnected with Premium Tech Tool (PTT)

Solution **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.

Control Unit	DTC	Status
Brake ECU (MCD 136)	SID 69: Axel load sensor, Pul 2: Data erratic, intermittent, or incorrect	Active
Engine Control Module (ECM)	ECM3P04: 1426: Sensor Gas (Last Reported, Signal Processing) 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

A. Software improvements have been made that address this DTC:

1. Service Program [SP 284-067 Engine Control Module \(ECM\) and Aftertreatment Control Module \(ACM\), Software Updates](#) was released July 2018. This service program should appear under the Campaigns section of the Product screen of Premium Tech Tool (PTT) when first connecting to the vehicle

- The Service Program document can be found on the dealer [Volvo Trucks eMedia](#).

- **Note:** There will be a prompt to sign in to the Trucks Dealer Portal site if necessary.
- Searching for 284-067 will return a link to the bulletin.

2. If there are no other concerns, release the vehicle after the campaign is completed.

B. If the Service Program does not apply to the chassis or there are possible related symptoms:

1. Check the Main Software (MSW) part number for the Engine Control Module (EMS).

- If the software part number is less than 23033425, update the EMS software.
- **NOTE: Software updates will not resolve physical symptoms.** If there are any concerns with operation, appropriate diagnostics will need to be performed.

2. Make sure to inspect the crankcase ventilation (CCV) system for any leaks or disconnected components. Repair any concerns located.

3. Make sure that engine oil is not increasing with time. If engine oil is rising, the cause should be diagnosed independently of P04DB.

C. If software is current and there are no physical issues located:

1. Clear the code and release the vehicle.

Solution visibility	Dealer distribution
Function Group	
Function Group	257 crankcase ventilation
Customer effect	

Main customer effect fault code/display

Fault Codes And Error Codes

OBDII Diagnostic Trouble
Codes (P, U, B Format) P04DB-00

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