

**Mack Models**

Mack Model LR , MRU , Anthem , CHU , CXU , GU

Volvo Models

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

Engine family

Engine family 11L Engine , 13L Engine , MP7 , MP8

Emission Standard

Emission Standard 2018 , OBD2017 , US17 GHG

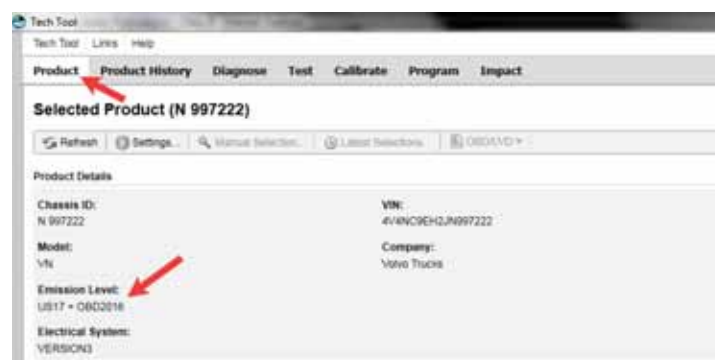
**** SOLUTION ****

Title Secondary Fuel Filter Damaged Lip Seal; High Pressure Fuel System Learning And Control Limit and System Pressure Diagnostic Trouble Codes (DTC), Possible Uneven Operation - **US17+OBD16 And Newer Emissions (Common Rail Fuel System), Commonly Model Year 2018 And Newer**

Cause A compromised lip seal on the secondary fuel filter may result in unfiltered fuel bypassing the filter and entering into the high pressure fuel system. This may result in fault codes or other symptoms related to fuel pressure.

Solution **1. 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:

**2. Review the DTC Readout**

- If any of the codes listed in the Fault Codes section below are present on the readout, proceed with check below.

3. Take pictures of the Fuel Tank Vent Filter Connections.

- Take pictures of the vent filter hose connection at the filter housing and at the fuel tank.
- Verify that the filter present and is not clogged
- Attach the pictures to the eService case that was opened when the unit arrived (required for GHG17 chassis).
- An example of the pictures required can be seen below:



Fuel tank connection



Filter housing connection

4. Remove the Secondary Fuel Filter and inspect the lip seal for damage.

- An example of a filter with a damaged lip seal and the lip seal appearance can be seen below:



- **If damage to the lip seal is found**, the eService case that was opened when the unit arrived (required for GHG17 chassis) should be updated with the following:

- A picture of the filter lip seal
- A picture of the date code on the canister of the fuel filter canister

Function(s)/component(s) affected

Function affected fuel supply , fuel system

Function Group

Function Group 23 fuel system, excluding gas propulsion

Customer effect

Main customer effect stumble , road behaviour , fault code/display

Fluid problem leak , priming/loss of prime , restriction

Fluid implicated fuel

Fluid pressure low pressure

Fault code(s)

OBD 2013 Diagnostic
Trouble Codes

P016F , P228F , P0087 , P0094

Conditions

Vehicle operating mode when driving , when stationary

Frequency of occurrence of
problem random

Administration

Author UT0455H

Dealer ID UT0455H

Last modified by RU4469V

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