



## Solution

**Title (customer effect)** Diagnostic Trouble Code ( DTC ) P0422 Lighting The Malfunction Indicator Light ( MIL ) - **US17 (GHG17), Common Rail Fuel System ONLY**

**Cause** **Model Year 2017, 2018 GHG2017 Emission vehicles equipped with Variable Geometry Turbocharger (11L, 13L):**

Chassis with Engine Control Module (EMS) Main Software (MSW) part number 23033425 or older are more likely to generate DTC P0422 due to the software.

**Model Year 2017, 2018 GHG2017 Emission vehicles equipped with Turbocharger Compound (13L only):**

Chassis with Engine Control Module (EMS) Main Software (MSW) part number 23080726 or older are more likely to generate DTC P0422 due to the software.

## Solution

### Overview

Software for the Engine Management System ( EMS ) has been released that addresses P0422.

### Repair

**1. Prior to diagnosis or parts replacement ensure that EMS software is updated to the current version.**

**2. If the software is current with or without other codes or symptoms:**

- If P0422 status is " CONFIRMED " in the Detailed Status Information as shown below, proceed with diagnosis of the code.

Title	Value
Confirmed DTC	True
Pending DTC	False

- If P0422 status is not "CONFIRMED", there is no previous history of this code setting frequently, and no other codes to suggest a related issue, clear the code and release the chassis.

**3. If the software is not current and P0422 is the only code and symptom present:**

- Update the Engine Control Module software to current levels.

- If both the EMS and Aftertreatment Control Module ( ACM ) have updates available, program the EMS **FIRST**.

**4. If the software is not current and there are other codes or symptoms present:**

- Update the Engine Control Module software to current levels.
- Proceed with diagnosis of the other codes.

Solution visibility	Dealer distribution
<b>Function(s)/component(s) affected</b>	
Function affected	Turbocharger , 1 1 0 EMS , EECU , Diagnostic tool
<b>Function Group</b>	
Function Group	2841 Electronic Control Unit , 38 instrument; sensor; warning and information system , 381 combined instrument
<b>Customer effect</b>	
Main customer effect	calibration/programming/pairing/missing operation , diagnostics/methodology , efficiency/abnormal behavior , fault code/display
Lights/Messages on information display	message on display , - - - - , - - / - -
<b>Fault code(s)</b>	
OBD 2013 Diagnostic Trouble Codes	POWERTRAIN , P0422
<b>Conditions</b>	
Vehicle operating mode	when driving , when stationary
Frequency of occurrence of problem	always
<b>Administration</b>	
Author	UT0031H
Last modified by	RU4469V
Creation date	23-06-2017 22:06
Date of last update	12-02-2018 17:02
Review date	25-07-2017 00:07
Status	Published
Average score	5
Number of scores	1
NA_Reviewer	ut0031h
NA_Author_Group	GTT
<b>Variantes Kola</b>	
DPX - ENGINE TYPE	ENG-VE11 - 11 L. VOLVO ENGINE , ENG-VE13 - 13 L. VOLVO ENGINE , ENG-VE16 -16 L. VOLVO ENGINE

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**NA\_MACK\_Vehicle\_Range**

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**NA\_MACK\_Vehicle\_Range** LR , LEU , MRU , Anthem , CHU , CXU , GU  
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**NA\_VOLVO\_Vehicle\_Range**

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**NA\_VOLVO\_Vehicle\_Range** VNR , VNL , VNM , VHD , VAH  
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**Engine family**

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

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**Emission Standard**

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Emission Standard 2018 , OBD2017 , US17 GHG

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