



**** SOLUTION ****

Title	13L Engines - High Engine Oil Pressure, Frequently Accompanied By P0521-64 Oil Pressure Sensor - Plausibility Fault
-------	---

Mack Models

Mack Model	AN - Anthem , CHU - Pinnacle, Axle back , CXU - Pinnacle, Axle front , GR - Granite , GU - Granite , PI - Pinnacle
-------------------	--

Volvo Models

Volvo Model	VN , VAH , VHD , VT
--------------------	---------------------

Emission Standard

Emission Standard	US07 , US10 , US10+OBD13 , US14+OBD13 , US14+OBD15 , US14+OBD16 , US17
-------------------	--

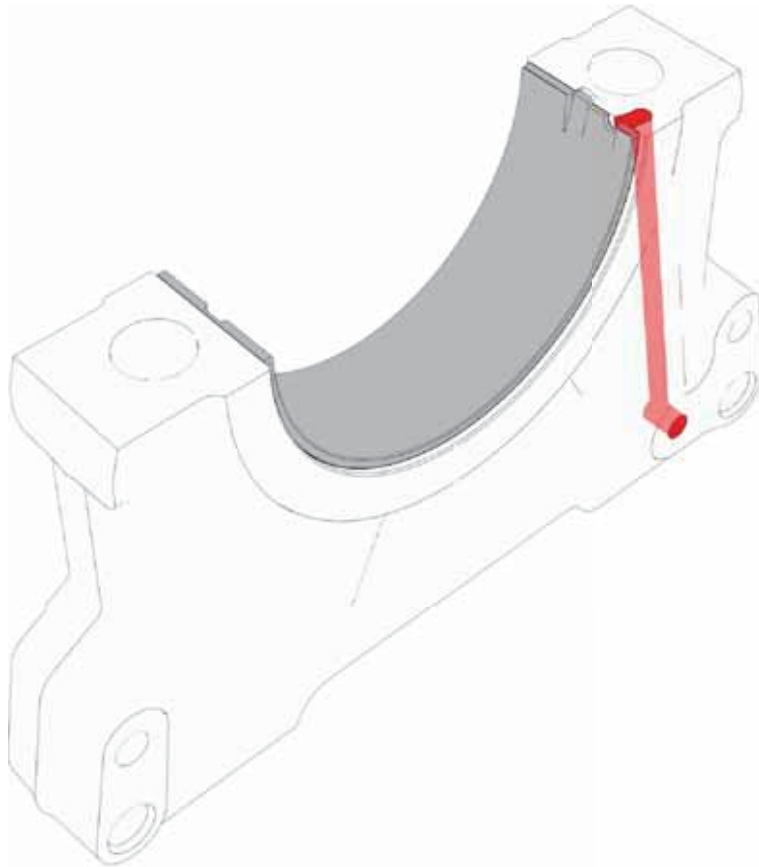
Engine family

Engine family	13L Engine , MP8
---------------	------------------

**** SOLUTION ****

Cause	Mis-alignment of the oil pressure feedback hole (highlighted in the drawing below) in the #7 lower main bearing causes lack of pressure feedback to the oil pump regulation
-------	---

valve.



S
o
l
u
t
i
o
n

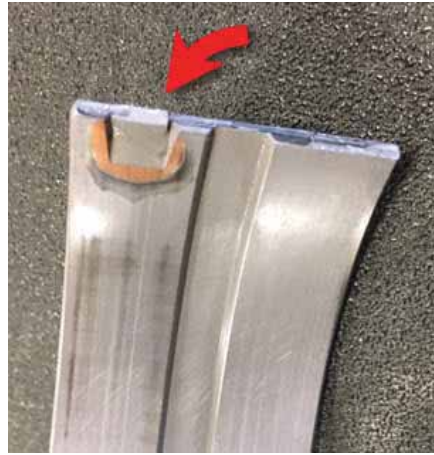
Prior to performing the inspection below:

1. The oil pressure must be confirmed to be abnormally high with a manual gauge.
2. The oil pressure sensor must be confirmed to be reading correctly when compared between Premium Tech Tool and a

If high oil pressure is confirmed:

1. Remove the oil pump and the #7 main bearing cap.
2. Verify that the bearing tab is not flattened and that the oil hole in lower bearing aligns with the passage as shown in th

- **Note:** If the bearing tab is flattened, there should also be indication that the bearing is slightly spun.



Click any of the images above to see a full-size picture.

If the issue is confirmed:

If the crankshaft is not damaged replace the bearing.

Solution visibility [Dealer distribution](#)

Function(s)/component(s) affected

Function affected oil pump and line

Function Group

Function Group 216 crank mechanism , 221 oil pump and line

Customer effect

Fluid implicated Oil

Fluid pressure high pressure

Fault code(s)

OBDII Diagnostic Trouble Codes (2013-) P0521-64

Administration

Author UT9246H

Dealer ID UT9246H

Last modified by RU4469V

Creation date 19-04-2019 20:04

Date of last update 30-04-2019 22:04

Status Published