



Service Bulletin

Bulletin No.: 20-NA-161

Date: December, 2020

INFORMATION

Subject: Information on Engine Low Oil Pressure Indicator on the Driver Information Center (DIC) - DTC P0521 Set

Brand:	Model:	Model Year:		Date Breakpoint:		Engine:	Transmission:
		from	to	from	to		
Chevrolet	Express	2019	2020	SOP	August 28, 2019	6.0L (L96 LC8)	-
	3500/4500 Medium Duty (LCF)		2019				
	Silverado 2500/3500		2019				
	Suburban		2019				
GMC	Savana		2020				
	Sierra 2500/3500		2019				

Involved Region or Country	North America, Middle East, Iraq, Israel, Palestine, Chile (West), Peru (West), Thailand (ASEAN)
Condition	<p>Some customers may comment on one or more of the following conditions:</p> <ul style="list-style-type: none"> MIL is illuminated. Oil Pressure Indicator on. <p>Some customers may also comment that the MIL illuminates and then turns off.</p> <p>Some technicians may find DTC P0521 (Engine Oil Pressure Sensor Performance) active or stored in history in the Engine Control Module (ECM).</p>
Cause	<p>This condition may be caused by a sticking oil pressure relief valve within the oil pump assembly.</p> <p>⇒ If vehicle was built after the breakpoint date, follow service information for the condition noted. It's not necessary to follow the steps below for this cause.</p>
Correction	<p>If you encounter a vehicle with the above DTC or conditions and before replacing any parts, it will be necessary to follow the steps below to determine what failure mode may exist and what the correct repair procedure is:</p> <ol style="list-style-type: none"> Remove the oil level indicator and confirm the oil level is at the full mark and not overfilled. With a manual oil pressure gauge, bring the engine to normal operating temperature. <p>⇒ Verify the oil pressure is within specification. Refer to <i>Engine Mechanical Specification (RPO L96 VIN G)</i> in SI for proper specification.</p> <ul style="list-style-type: none"> If engine oil pressure is less than normal, replace the engine oil filter and retest. If engine oil pressure is still low, it will be necessary to inspect the #1 main bearing for any damage. <p>⇒ If the #1 main bearing is not damaged, then it will be necessary to replace the engine oil pump only.</p> <p>⇒ If the #1 main bearing is damaged but not spun it will be necessary to replace the crankshaft, main bearings, rod bearings and the engine oil pump.</p> <p>⇒ If the #1 main bearing was spun it will be necessary to replace the engine assembly.</p> <ol style="list-style-type: none"> When the applicable repair is complete road test vehicle to ensure engine is operating as designed.

Parts Information

Causal Part	Description	Part Number	Qty
X	PUMP, OIL	12696357	1
N/A	ENGINE, GASOLINE (SERV NEW) L96	19256594	1
N/A	ENGINE, GASOLINE (SERV NEW) LC8	12642269	1
N/A	CRANKSHAFT, (CROSS DRILLED CRANK)	12685656	1
N/A	BEARING KIT, CR/SHF (#1,2,4, 5) (STD)	89017571	4
N/A	BEARING KIT, CONN ROD (STD)	89017573	8
N/A	GASKET, OIL PAN	12612350	1
N/A	SEAL, O/PMP SUC PIPE (O-RING)	12584922	1

Causal Part	Description	Part Number	Qty
N/A	HOUSING, CR/SHF RR OIL SEAL	12639250	1
N/A	GASKET, CR/SHF RR OIL SEAL HSG	12639249	1
N/A	BOLT, CR/SHF BALR (M16x2.0x103)	12557840	1
N/A	STUD, CR/SHF BRG CAP (HFH, M10x2x23)	12560273	10
N/A	BOLT, CR/SHF BRG CAP (SIDE) (SHORT) (M8x1.25x11)	12556127	10
N/A	BOLT, CR/SHF BRG CAP (M10x2x102.5)	12560272	10
N/A	GASKET, ENG FRT CVR	12633904	1

Warranty Information

Note: Only use the Labor Operation number that coincides with the repair performed.

For vehicles repaired under warranty, use:

Labor Operation	Description	Labor Time
4066070	Oil Pump Replacement	Use the Published Labor Operations Time
4067490	Engine Replacement	
4066750	Crankshaft Replacement	

Version	1
Modified	Released November 30, 2020

GM bulletins are intended for use by professional technicians, NOT a "do-it-yourselfer". They are written to inform these technicians of conditions that may occur on some vehicles, or to provide information that could assist in the proper service of a vehicle. Properly trained technicians have the equipment, tools, safety instructions, and know-how to do a job properly and safely. If a condition is described, DO NOT assume that the bulletin applies to your vehicle, or that your vehicle will have that condition. See your GM dealer for information on whether your vehicle may benefit from the information.



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