



Preliminary Information

PIP5421C Malfunction Indicator Lamp Illuminated With DTC P0300

Models

Brand:	Model:	Model Years:	VIN:		Engine:	Transmissions:
			from	to		
Chevrolet	Malibu	2016 - 2017	All	All	1.5L LFV	All
Involved Region or Country	USA, Canada					
Additional RPOs:	LFV					
Condition	Some customers may comment on a rough running engine with the Malfunction Indicator Lamp on. Upon inspection, a technician may find DTC P0300 set along with a misfire and low compression in one or more cylinders.					
Cause	This condition may be caused by a damaged piston requiring replacement of all four piston and rod assemblies with an updated part number.					

Correction:

Repair the engine mechanical concern based on the results of the service procedure below.

Service Procedure:

Perform Engine Compression Testing in SI.

If low compression is found, perform Cylinder Leakage Testing in SI and record the test results to isolate the concern.

NOTE: (To isolate the source of cylinder leakage to a valve or cylinder sealing issue, it may be necessary to remove the intake and exhaust manifolds).

If excessive leakage to the crankcase is isolated, check piston and cylinder wall condition.

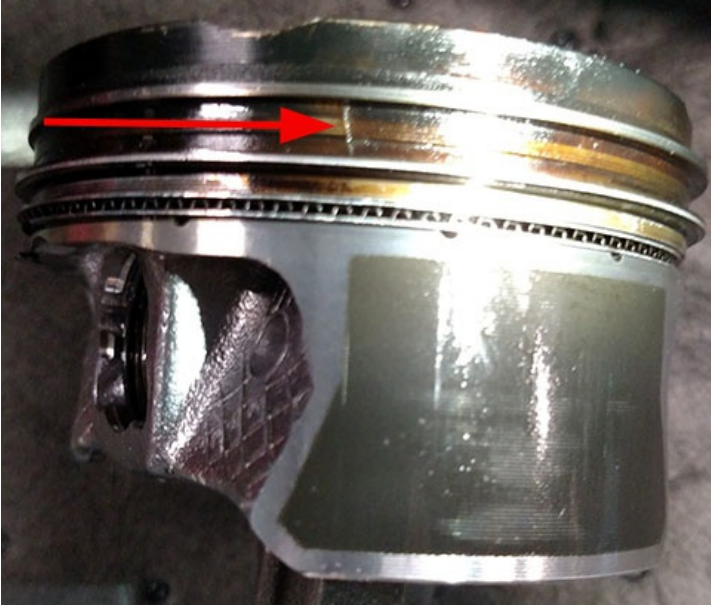
If the cylinder wall surface has not been compromised, replace all four piston and rod assemblies.

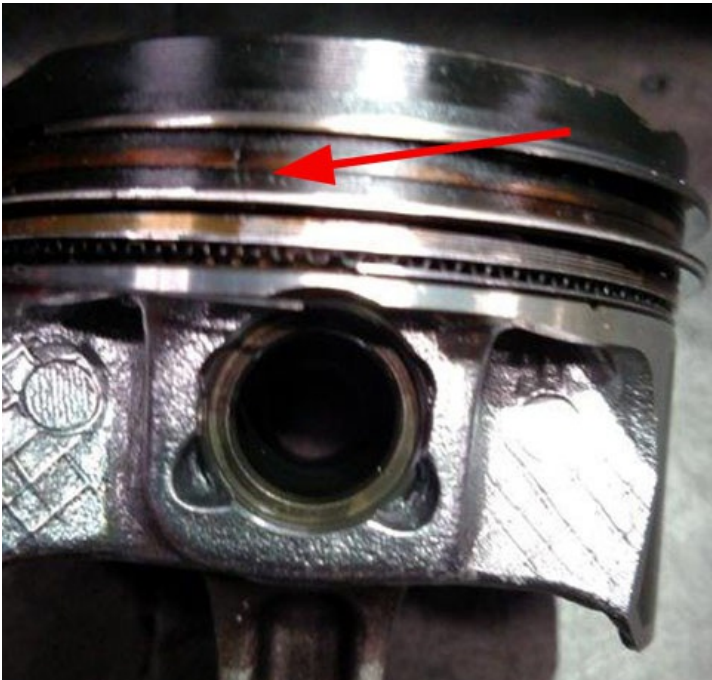
Fill the crankcase with current specification Dexos 1 oil. (Refer to latest version of Corporate Bulletin Number [16-NA-367](#)).

An un-metered air leak in the induction system, or an engine mechanical issue causing rough running, may cause the ECM to learn an incorrect Throttle Body Idle Airflow Compensation value over time. This incorrectly learned value may cause various symptoms to occur such as, MIL on with P1101 setting, rough or unstable idle speeds and/or engine stall.

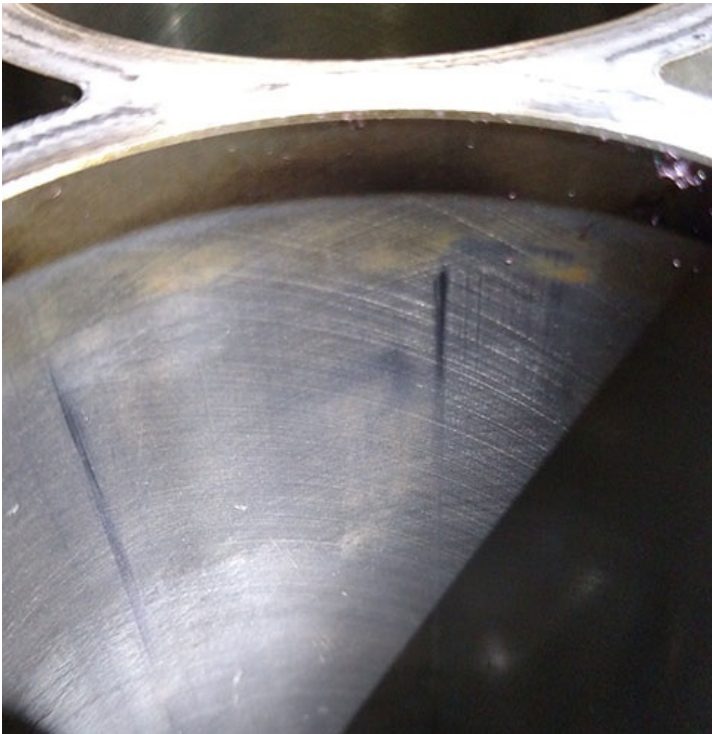
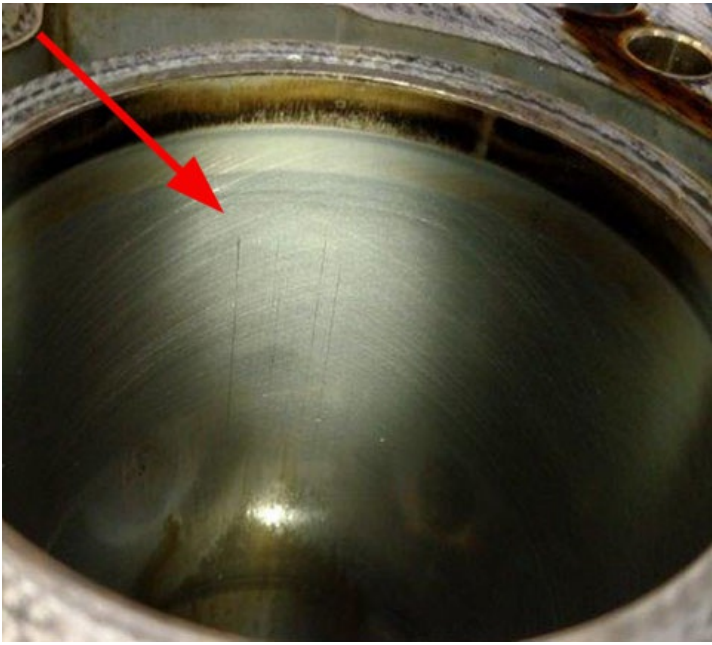
Once the mechanical repairs have been completed, perform Throttle Body Inspection and Cleaning in Service Information, followed by Throttle Body Idle Air Flow Compensation Reset function in GDS2.

Shown below are examples of pistons with varying levels of damage.

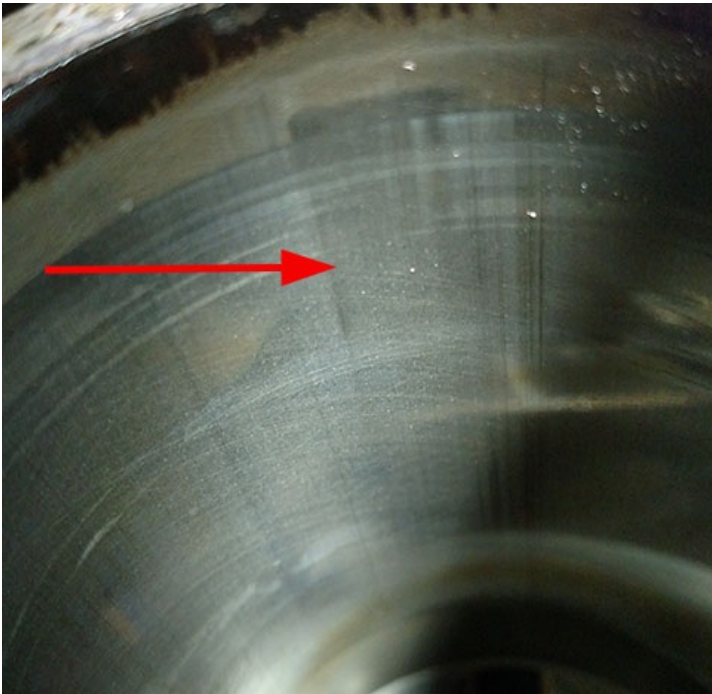




Shown below are several examples of light vertical marks visible on the cylinder wall.
In these examples, none of the marks in the cylinder walls could be felt with the finger tip or nail and engine replacement is not recommended.



Shown below is an example of a damaged cylinder wall.
In this example the scuffing is wide and has removed the crosshatch from the cylinder wall in the area above the arrow.
This would result in oil consumption and requires engine replacement.



Parts Information

Description	Part Number	Quantity
Piston & Rod Assembly	12674549	4 (4 Required)

Warranty Information

Labor Operation	Description	Labor Time
4066890	Piston, Connecting Rod, and Bearing Replacement	Use Published Labor Time

Version History

Version	5
Modified	09/30/2016 - Updated Service Procedure.
	1/20/2017 - Updated Service Procedure and model list and added part number.
	02/28/2017- Updated repair information
	04/04/2017 - Updated to reference 16-NA-367