



Service Bulletin

PRELIMINARY INFORMATION

Subject: Oil Leak At Front Of Engine

Models: 2010-2011 Buick Lucerne
2010-2011 Chevrolet Impala
Equipped with a 3.9L engine (RPO LGD)

The following diagnosis might be helpful if the vehicle exhibits the symptom(s) described in this PI.

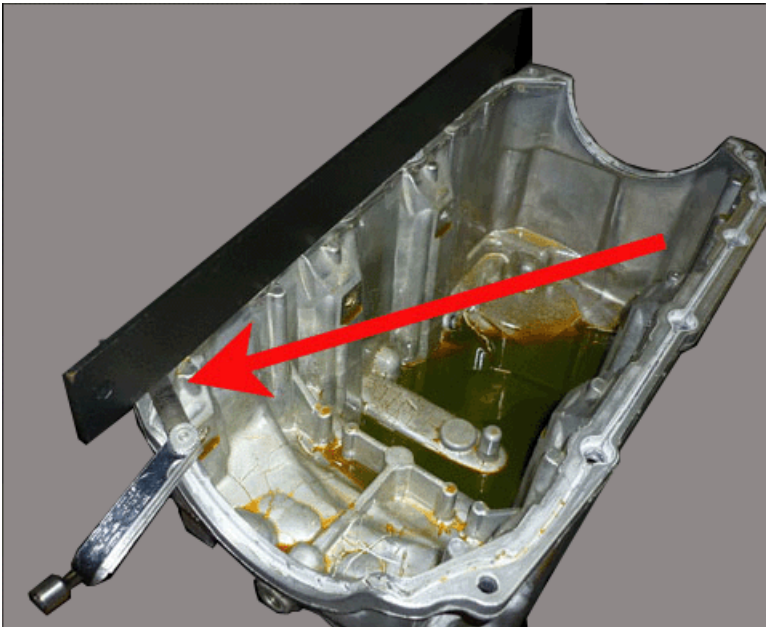
Condition/Concern

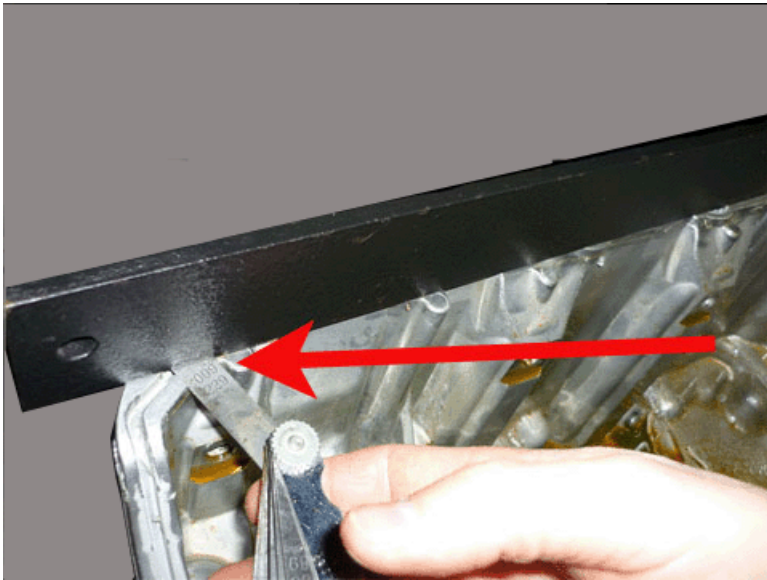
Some customers may comment on an oil leak from the front of the vehicle. Upon further inspection the leak can be isolated to the engine oil pan to front cover mating surface. This condition may be caused by warpage/taper of the oil pan sealing surface.

Recommendation/Instructions

Using SI engine oil leak diagnostics, identify the origin of the oil leak. If the leak is isolated to the oil pan to front cover mating area, remove the oil pan and inspect as follows:

Using a straight edge and a feeler gauge measure taper on each side rail of the oil pan as shown below.





If the taper is greater than .005"(0.127mm) the oil pan sealing surfaces will require resurfacing/milling by a capable machine shop.

If taper is .005"(0.127mm) or less no machining will be required. Note: If taper is .005"(0.127mm) or less, apply a thin layer of sealer GM P/N 12346004 (Canadian P/N 10953480), or equivalent to the oil pan rail(s) the length of the tapered area to ensure that the gasket seals to the pan.

After the oil pan has been resurfaced or measurement was .005"(0.127mm) or less, reinstall using appropriate SI installation procedure.

Warranty Information

For vehicles repaired under warranty, use:

Labor Operation	Description	Labor Time
4065870	Oil Pan Replacement	Use Published Labor Operation Time

Please follow this diagnostic or repair process thoroughly and complete each step. If the condition exhibited is resolved without completing every step, the remaining steps do not need to be performed.

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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