



# Service Bulletin

File in Section: -

Bulletin No.: PIP5210

Date: July, 2014

## 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.

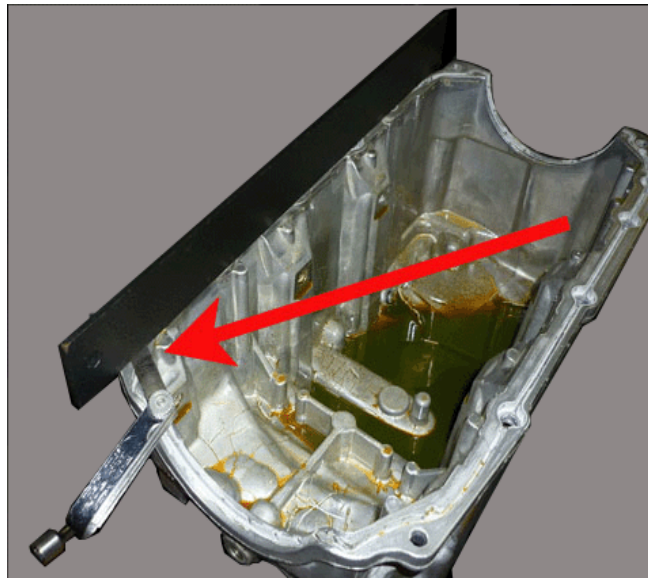
### Condition/Concern

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.

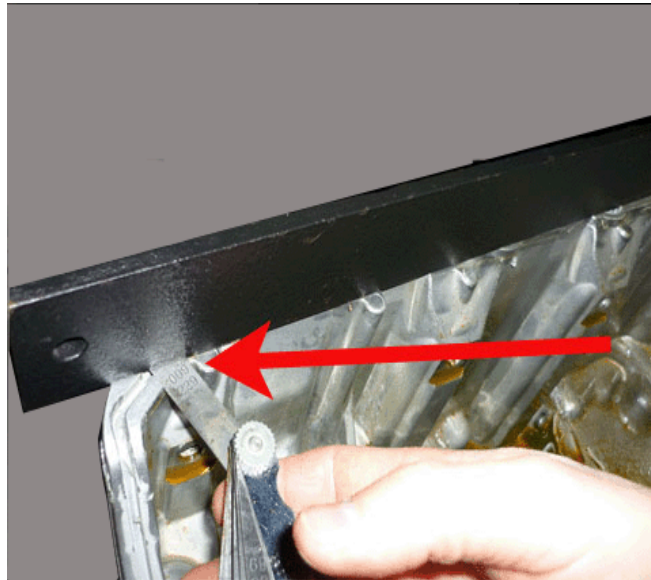
### Recommendation/Instructions

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.



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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.