



Preliminary Information

PIP5674A Ticking Noise or P0016, P0017, P0018, Or P0019 Set, Oil Very Dark, Possible Coolant Loss.

Models

Brand:	Model:	Model Years:	VIN:		Engine:	Transmissions:
			from	to		
Buick	Enclave	2019 - 2023	All	All	3.6 LFY	All
Cadillac	XTS	2019	All	All	3.6 LFX	All
Chevrolet	Impala	2019 - 2020	All	All	3.6 LFX	All
Chevrolet	Traverse	2019 - 2023	All	All	3.6 LFY	All

Involved Region or Country	North America
Condition	A customer may come in with any of the following concerns; SES/MIL on with any of P0016, P0017, P0018 or P0019 setting, ticking noise, coolant loss, or the oil looks very dark or black.
Cause	The cause for this concern may be coolant contaminating the engine oil due to internal porosity on the cylinder head at the outer bolt area.

Correction

If you encounter any of the previous concerns, look at the oil to see if it is dark and / or sticky feeling. Remove both camshaft covers for access to the top of the cylinder heads.

NOTE: You may need to clean the area if excessive thick oil is present.

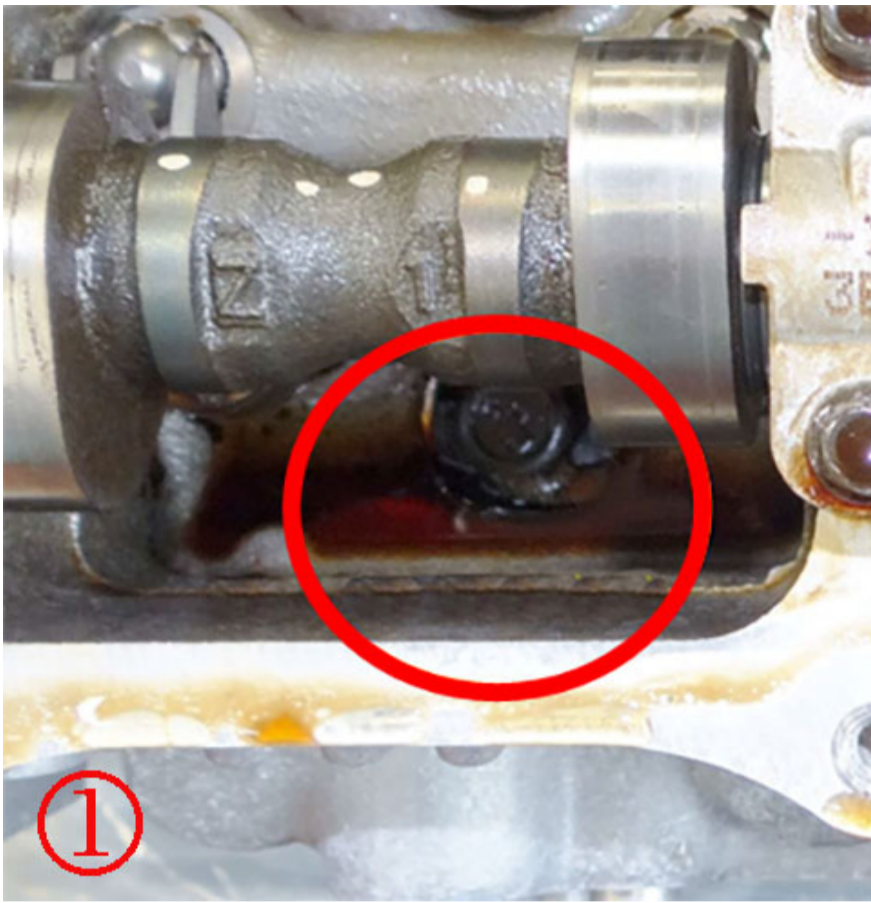
Pressure test the cooling system with up to 20 PSI while watching the center two head bolt area on the exhaust side of the heads.

Observe for 15 to 30 minutes watching for bubbles like the pictures shown below.

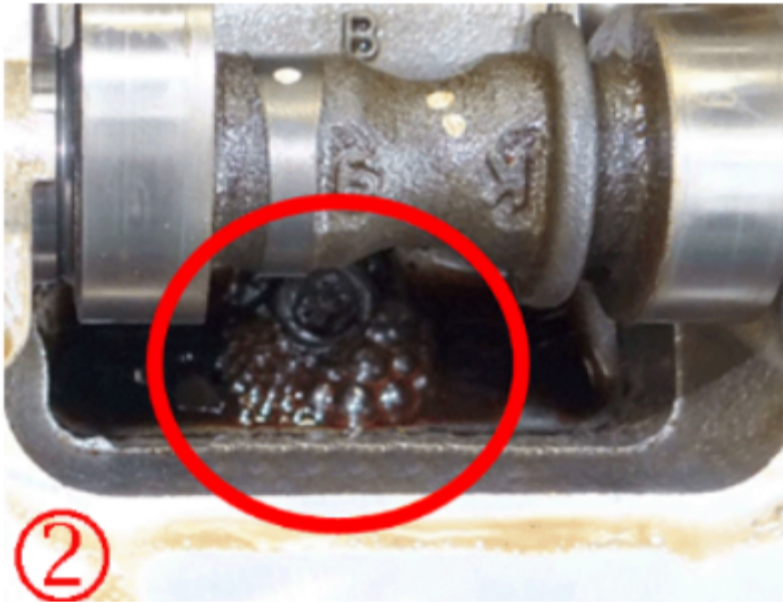
If no bubbles show then leave the pressure tester on for an additional 24 to 48 hours as we have seen some very small porosity cause this condition.

In this case the affected cylinder head will need to be replaced.

1) Moderate Leak



2) Extreme Leak



Locations of actual porosity





Warranty Information

For vehicles repaired under the Powertrain coverage, use the following labor operation. Reference the Applicable Warranties section of Investigate Vehicle History (IVH) for coverage information.

Labor Operation	Description	Labor Time
4061770	Cylinder Head Replacement - Right Side	Use Published Labor Time
4061790	Cylinder Head Replacement - Left Side	Use Published Labor Time

Version History

Version	3
Modified	09/04/2019 - Created on. 11/10/2022 - Updated to add model years and instruction to leak test longer if needed.



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