



Service Bulletin


Bulletin No.: 23-NA-122

Date: May, 2025

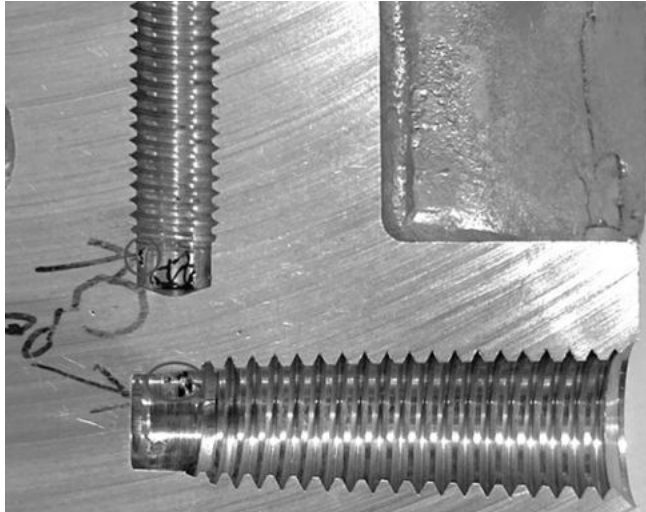
TECHNICAL

Subject: Engine Oil Leak

Brand:	Model:	Model Year:		VIN:		Engine:	Transmission :
		from	to	from	to		
Buick	Encore GX	2020	2024	—	—	1.2L Turbo (RPO LIH)	—
	Envista	2024					
Chevrolet	Trax	2024					
	Trailblazer (VIN M)	2021					

Involved Region or Country	North America
Condition	Some customers may comment on oil leak between the engine front cover and turbocharger heat shield.
Cause	 <p>This condition may be caused by porosity from the engine block bolt holes. Important: Do Not replace the engine for this condition.</p>

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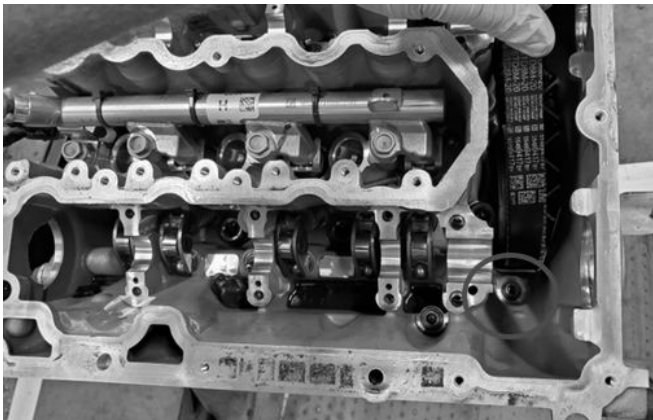
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- Oil leaking was found to be coming from porosity between the cylinder head bolt hole and the engine mount boss, bolt hole.

Correction

Remove the cylinder head bolt to apply Loctite® 565 to a new bolt. Refer to the Service Procedure.

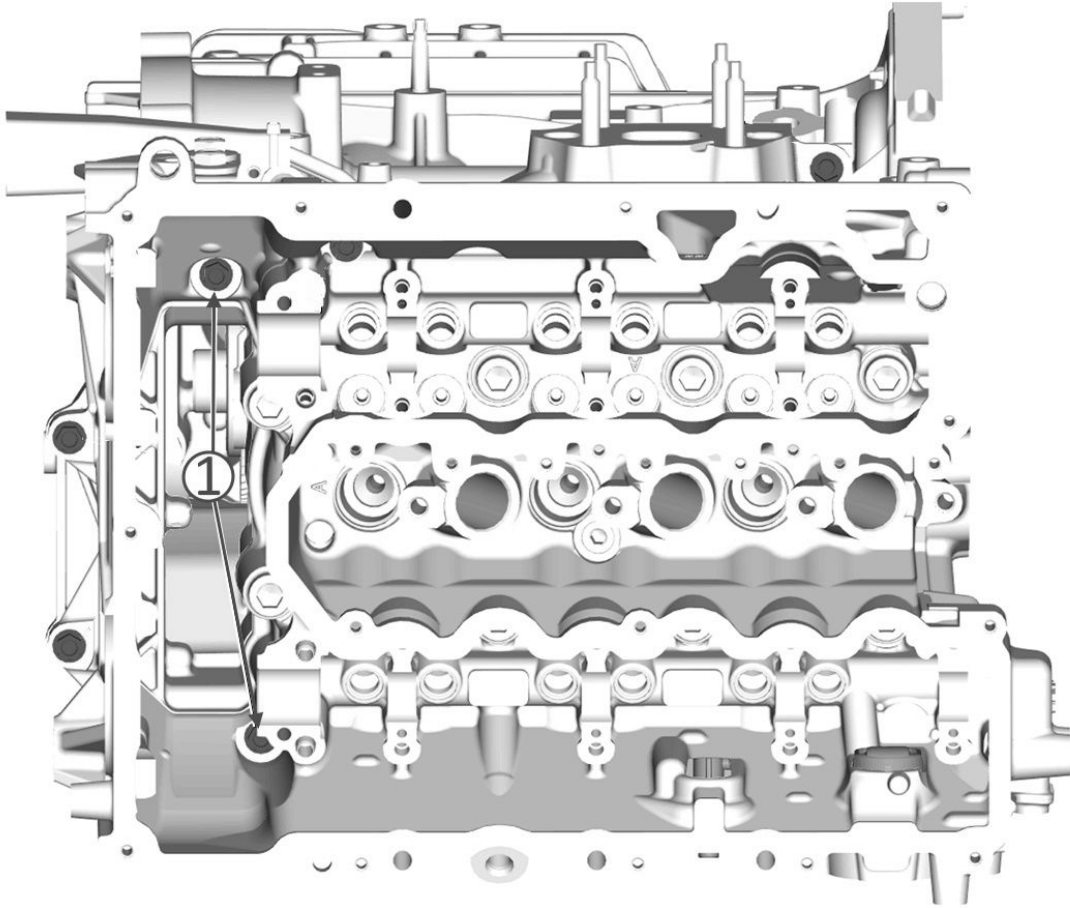
Important: Service agents must comply with all International, Federal, State, Provincial, and/or Local laws applicable to the activities it performs under this bulletin, including but not limited to handling, deploying, preparing, classifying, packaging, marking, labeling, and shipping dangerous goods. In the event of a conflict between the procedures set forth in this bulletin and the laws that apply to your dealership, you must follow those applicable laws.

Service Procedure

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Note: Camshaft removed for clarity.

1. Remove the exhaust camshaft sprocket and position aside. Refer to *Camshaft Exhaust Sprocket Replacement*.



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2. Remove both the cylinder head bolts.



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Important: Do Not apply Loctite© to the end of the bolt. Damage to the engine block may occur.

3. Apply 565 Loctite© to a new cylinder head bolt as indicated in the graphic above.
4. Install the bolt into the cylinder head and torque to 14.5 N•m (10.7 lb ft). Refer to *Fastener Specifications*.
5. Install the exhaust camshaft sprocket. Refer to *Camshaft Exhaust Sprocket Replacement*.

Additional Area of Concern

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Note: Graphic above shows the generator removed for clarity on area effected.

A leak may also be located on the other side of the engine block between cylinder head pinch bolt and the generator mounting area.

If this is the case, the camshaft does NOT have to come out of the engine. If you remove the cam cover, there is socket clearance access to the pinch bolt in. It is recommended to use a magnetic socket so you don't drop the bolt down into the engine while removing it, but the bolt can be removed, Loctite can be applied, and the bolt can be retightened to 14.5 N•m (10.7 lb ft). Allow cure time before starting the engine again. It is easier than the pinch bolt on the other side which cannot be accessed without removing the camshaft.

Parts Information

Causal Part	Description	Part Number	Qty
N/A	BOLT, CYL HD	11547739	As Required
N/A	CLAMP, EXH PIPE	55513359	1
N/A	GASKET, CTLTC CONV	12641115	1
N/A	CLAMP, PCV VAC HOSE	24585201	2
N/A	PIPE, TURBO COOL FEED	55487866	1
N/A	GASKET, TURBO OIL RTN PIPE	55514397	2
N/A	SEAL, TURBO OIL RTN PIPE	55487539	1
N/A	WASHER, TURBO OIL FEED PIPE	55497445	1
N/A	NUT, EXH SYS INTER	11612078	4
N/A	GASKET, CM/SHF CVR	55487546	1

Causal Part	Description	Part Number	Qty
N/A	BOLT, CR/SHF BALR	25194208	1
N/A	COVER, TMG BELT LWR	55487381	1
N/A	BOLT, CM/SHF SPKT	55487704	2
N/A	HOSE, PCV VAC	55513554	1
N/A	GASKET, EXH SYS FRT	13499082	1
N/A	PIPE, TURBO COOL FEED	55509610	1
N/A	OIL, ENGINE	Refer to EPC	As Required
N/A	COOLANT		
N/A	LOCTITE	565	1

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
4089088*	Add Loctite© to Cylinder Head Bolt	3.6 hrs
*This is a unique Labor Operation for bulletin use only.		

Version	2
Modified	Released December 18, 2023 Revised May 09, 2025 - Updated Cylinder Head Bolt Part Number in Warranty Information section.

