



# Service Bulletin

Bulletin No.: 23-NA-141

Date: August, 2023

## INFORMATION

**Subject:** Information on Engine Block Cracked at Head Bolt Hole Locations

| Brand:    | Model:                       | Model Year:    |    | VIN: |    | Engine: | Transmission: |
|-----------|------------------------------|----------------|----|------|----|---------|---------------|
|           |                              | from           | to | from | to |         |               |
| Buick     | GM Passenger Cars and Trucks | 2024 and Prior |    | —    | —  | All     | —             |
| Cadillac  |                              |                |    |      |    |         |               |
| Chevrolet |                              |                |    |      |    |         |               |
| GMC       |                              |                |    |      |    |         |               |

|                                   |  |
|-----------------------------------|--|
| <b>Involved Region or Country</b> | North America, Europe, Uzbekistan, Russia, Middle East, Iraq, Israel, Palestine, Argentina, Brazil, Bolivia, Chile, Colombia, Ecuador, Paraguay, Peru, Uruguay, Venezuela, Japan, Cadillac Korea (South Korea), GM Korea Company, China, Taiwan, Thailand, Singapore, Philippines, Egypt, Other Africa, South Africa |
|-----------------------------------|--|

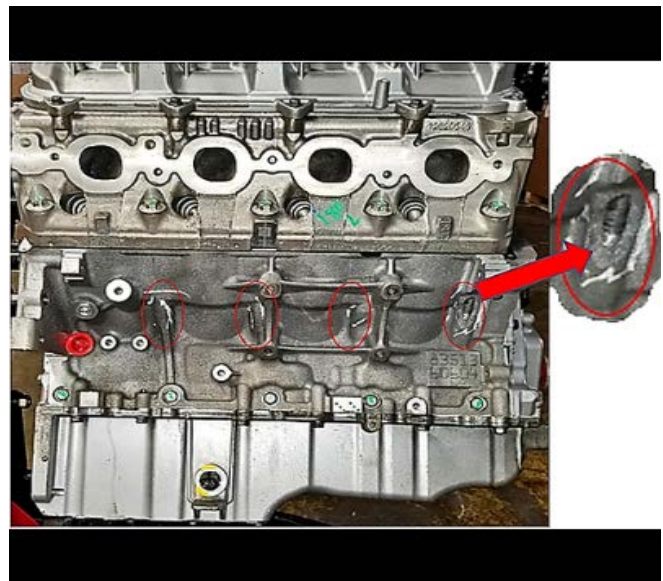
**Important:** Service agents must comply with all International, Federal, State, Provincial, and/or Local laws applicable to the activities it performs under this bulletin, including but not limited to handling, deploying, preparing, classifying, packaging, marking, labeling, and shipping dangerous 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.

### Information

**Notice:** Engines that are repaired for the conditions outlined in this bulletin should not be considered warranty. Any warranty claims submitted with these conditions may be debited.

### Conditions/Concerns

**Engine Block Damage caused by Foreign Debris, Dirt, or Coolant Left in the Cylinder Head Bolt Holes**



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The engine block may be cracked or damaged if debris, dirt, or coolant is left in the cylinder bolt holes of the block, or if the threads are damaged when installing the head bolts during any service repair that requires removal, installation, or replacement of the cylinder head. (See GenV engine photos below as example).

The head bolt holes in the block are being damaged due to coolant, dirt, or debris being present in head bolt holes during cylinder head installation during a repair, or when re-assembling the engine for core return.

If coolant, dirt, or debris is present in the bolt holes during assembly, the foreign material will create a hydro-lock condition that will over-pressurize the casting column of the threaded hole in the block, causing the casting to break as shown in the graphic above.

## Recommendation/Instruction

Follow steps below prior to performing any service repair involving cylinder head installation, or replacement.

- Clean all dirt, debris, and coolant from the engine block cylinder head bolt holes. Failure to remove all foreign material may result in damaged threads, improperly tightened fasteners, cause damage to engine block, or other components.
- Clean bolt holes using spray solvent, and compressed air.
- Inspect/repair threads of head bolt holes per SI repair procedures.

Debits will be issued for the following reasons:

- Failure or damage due to vehicle use, wear, exposure, lack of maintenance, alterations, or improper servicing, is not covered.
- Non-Return of Parts.
- Inspection Results by WPC.

Please refer to the latest version of Service Bulletin #99-00-89-019: Global Warranty Management (GWM) Warranty Parts Center (WPC) Parts Return Program for more information.

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|-----------------|--------------------------|
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| <b>Modified</b> | Released August 11, 2023 |

