



# Service Bulletin

Bulletin No.: 22-NA-232

Date: August, 2023

## INFORMATION

**Subject: Diagnostic Tip for 10 Speed Oil Pump Drive Gear**

Brand:	Model:	Model Year:		VIN:		Engine:	Transmission:
		from	to	from	to		
Cadillac	CT6	2019	2020			L3B, LM2, L84, L87, LSY, LGX	MHO, MHS, MHT, MHW, MHX, MI1, MI2, MI4, MQA, MQB, MQC
	CT4	2020	2023				
	CT5	2020					
	Escalade Models	2021					
Chevrolet	Camaro	2020	2023				
	Silverado 1500 (New Model)	2019	2019				
	Silverado LD						
	Silverado 1500	2020	2021				
	Silverado 1500 - LTD (RPO J21, VIN Digit 5 = W/Y)	2022	2022				
	Silverado 1500 - New (RPO J22, VIN Digit 5 = A)						
	Silverado 1500	2023	2023				
	Suburban	2021					
	Tahoe						
GMC	Sierra 1500 (New Model)	2019	2019				
	Sierra Limited						
	Sierra 1500	2020	2021				
	Sierra 1500 - Limited (RPO J21, VIN Digit 5 = 8/9)	2022	2022				
	Sierra 1500 - New (RPO J22, VIN Digit 5 = H/U)						
	Sierra 1500	2023	2023				
	Yukon Models	2021					

<b>Involved Region or Country</b>	North America, Middle East, Australia, New Zealand
<b>Condition</b>	Some customers may comment that a whine, growl or grind noise from the vehicle. – This noise may be present at idle and increase in intensity as engine RPM increases. This condition typically presents itself at approximately 15,000 miles (24140 km) and higher mileage.
<b>Cause</b>	This condition may be caused by the oil pump drive gears in the transmission.
<b>Information</b>	The noise may be present from the front of the transmission or rear of the engine: <ol style="list-style-type: none"> <li>1. Remove the transmission oil pan, valve body and transmission oil pump.</li> <li>2. Inspect the oil pump driven gear on the oil pump for abnormal wear or tooth damage.</li> <li>3. Also inspect the transmission oil pump idler gear for abnormal wear, tooth damage and side to side movement.</li> </ol> – If gear damage is found on both the driven and idler gear, the driven gear in the front cover is damaged as well.

**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.**

### Additional Information

**Note:** Improvements to the oil pump drive and idler gears were made in the 2022 model year.

On 2022 and newer vehicles or vehicles that recently had the transmission oil pump drive gears replaced. Review the following diagnostics prior to removing the transmission oil pan.

- Correct all Engine and Transmission related DTC's.
  - Many DTC's command high line pressure which will create transmission oil pump whine noise, which would be considered characteristic.
- Remove the Engine Drive Accessory belt to rule out any belt driven components.
- Review of the following engine related TSB's: 19-NA-218, 22-NA-218, PIP5900.

If gear damage and excessive side movement is not noticed additional diagnostics should performed. Engine noises are often heard in the transmission bellhousing.

**Note:** Noise present engine running in park, in gear foot on the brake.

- Possible engine related or torque converter. Internal torque converter damage will typically create debris in the pan.

Noise present with the engine drive accessory belt removed.

Excessive crankshaft end play.



6196003

Note the damage to the oil pump idler gear.



6196006

Note the side-to-side movement in the oil pump idler gear.



6196005

Note the damage to the oil pump driven gear.

<b>Version</b>	4
<b>Modified</b>	Released November 18, 2022 Revised January 20, 2023 - Added 2020 to CT5 and Added Addition Keywords Section. Revised June 13, 2023 - Added 2023 to Applicable Vehicles and Updated Additional Information section. Revised July 31, 2023 - Added 2020 CT4 and L3B to Engine RPO section.

**Additional Keywords:** 10L80, 10 Speed

