Part 573 Safety Recall Report 25V-274

Manufacturer Name : General Motors, LLC
Submission Date : MAY 08, 2025
NHTSA Recall No. : 25V-274
Manufacturer Recall No. : N252494000

Manufacturer Information :

Manufacturer Name : General Motors, LLC
Address : 29427 Louis Chevrolet Road
MAIL CODE 480-210-2V WARREN MI 48093
Company phone : 586-596-1733

Population :

Number of potentially involved : 597,571
Estimated percentage with defect : 3 %

Vehicle Information :

Vehicle 1 : 2021-2024 Cadillac Escalade
Vehicle Type :
Body Style :
Power Train : NR
Descriptive Information : Manufacturing records were used to determine vehicles equipped with the 6.2L V8 gas engine (RPO L87) built within the suspect manufacturing window. Vehicles outside of this window and vehicles equipped with other engines are not included in this recall.

There are 79,673 Cadillac Escalade vehicles affected by this recall.

Production Dates : MAR 01, 2021 - MAY 31, 2024
VIN Range 1 : Begin : NR End : NR ☐ Not sequential

Vehicle 2 : 2021-2024 Cadillac Escalade ESV
Vehicle Type :
Body Style :
Power Train : NR
Descriptive Information : Manufacturing records were used to determine vehicles equipped with the 6.2L V8 gas engine (RPO L87) built within the suspect manufacturing window. Vehicles outside of this window and vehicles equipped with other engines are not included in this recall.

There are 46,267 Cadillac Escalade ESV vehicles affected by this recall.

Production Dates : MAR 01, 2021 - MAY 31, 2024
VIN Range 1 : Begin : NR End : NR ☐ Not sequential

Vehicle 3 :	2021-2024 Chevrolet Silverado 1500
Vehicle Type :	
Body Style :	
Power Train :	NR
Descriptive Information :	Manufacturing records were used to determine vehicles equipped with the 6.2L V8 gas engine (RPO L87) built within the suspect manufacturing window. Vehicles outside of this window and vehicles equipped with other engines are not included in this recall. There are 107,244 Chevrolet Silverado 1500 vehicles affected by this recall.
Production Dates :	MAR 01, 2021 - MAY 31, 2024
VIN Range 1 :	Begin : NR End : NR ☐ Not sequential

Vehicle 4 :	2021-2024 GMC Yukon XL
Vehicle Type :	
Body Style :	
Power Train :	NR
Descriptive Information :	Manufacturing records were used to determine vehicles equipped with the 6.2L V8 gas engine (RPO L87) built within the suspect manufacturing window. Vehicles outside of this window and vehicles equipped with other engines are not included in this recall. There are 60,926 GMC Yukon XL vehicles affected by this recall.
Production Dates :	MAR 01, 2021 - MAY 31, 2024
VIN Range 1 :	Begin : NR End : NR ☐ Not sequential

Vehicle 5 :	2021-2024 Chevrolet Tahoe
Vehicle Type :	
Body Style :	
Power Train :	NR
Descriptive Information :	Manufacturing records were used to determine vehicles equipped with the 6.2L V8 gas engine (RPO L87) built within the suspect manufacturing window. Vehicles outside of this window and vehicles equipped with other engines are not included in this recall. There are 44,814 Chevrolet Tahoe vehicles affected by this recall.
Production Dates :	MAR 01, 2021 - MAY 31, 2024
VIN Range 1 :	Begin : NR End : NR ☐ Not sequential

Vehicle 6 :	2021-2024 GMC Sierra 1500
Vehicle Type :	
Body Style :	
Power Train :	NR
Descriptive Information :	Manufacturing records were used to determine vehicles equipped with the 6.2L V8 gas engine (RPO L87) built within the suspect manufacturing window. Vehicles outside of this window and vehicles equipped with other engines are not included in this recall. There are 153,637 GMC Sierra 1500 vehicles affected by this recall.
Production Dates :	MAR 01, 2021 - MAY 31, 2024
VIN Range 1 :	Begin : NR End : NR ☐ Not sequential

Vehicle 7 :	2021-2024 GMC Yukon
Vehicle Type :	
Body Style :	
Power Train :	NR
Descriptive Information :	Manufacturing records were used to determine vehicles equipped with the 6.2L V8 gas engine (RPO L87) built within the suspect manufacturing window. Vehicles outside of this window and vehicles equipped with other engines are not included in this recall. There are 82,841 GMC Yukon vehicles affected by this recall.
Production Dates :	MAR 01, 2021 - MAY 31, 2024
VIN Range 1 :	Begin : NR End : NR ☐ Not sequential

Vehicle 8 :	2021-2024 Chevrolet Suburban
Vehicle Type :	
Body Style :	
Power Train :	NR
Descriptive Information :	Manufacturing records were used to determine vehicles equipped with the 6.2L V8 gas engine (RPO L87) built within the suspect manufacturing window. Vehicles outside of this window and vehicles equipped with other engines are not included in this recall. There are 22,169 Chevrolet Suburban vehicles affected by this recall.
Production Dates :	MAR 01, 2021 - MAY 31, 2024
VIN Range 1 :	Begin : NR End : NR ☐ Not sequential

Description of Defect :

Description of the Defect :	General Motors has decided that a defect which relates to motor vehicle safety may exist in certain 2021 – 2024 model year Cadillac Escalade and Escalade ESV, Chevrolet Silverado 1500, Suburban, and Tahoe, and GMC Sierra 1500, Yukon, and Yukon XL vehicles equipped with the 6.2L V8 gas engine (RPO L87). The connecting rod and/or crankshaft engine components in these vehicles may have manufacturing defects that can lead to engine damage and engine failure.
FMVSS 1 :	NR
FMVSS 2 :	NR
Description of the Safety Risk :	If the engine fails during vehicle operation, the vehicle will lose propulsion, increasing the risk of a crash.
Description of the Cause :	Engine teardown analysis identified two primary root causes, both of which are attributable to supplier manufacturing and quality issues: (1) rod-bearing damage from sediment on connecting rods and crankshaft-oil galleries; and (2) out of specification crankshaft dimensions and surface finish.
Identification of Any Warning that can Occur :	Drivers may be alerted to the condition prior to failure from: (a) knocking, banging, or other unusual engine noises; (b) illumination of the check engine light; and/or (c) engine-performance issues, including hesitation, high RPMs, abnormal shifting, reduced propulsion, or a no-start condition.

Involved Components :

Component Name 1 :	CRANKSHAFT ASM
Component Description :	L87 Crankshaft
Component Part Number :	12732518

Component Name 2 :	ROD ASM-CONN
Component Description :	L87 Connecting Rod
Component Part Number :	12714549

Supplier Identification :

Component Manufacturer

Name :	see attached
Address :	NR

NR
Country : NR

Chronology :

On January 16, 2025, GM opened a product investigation following notification from NHTSA of its investigation into alleged engine failures in GM vehicles equipped with the L87 V8 engine. GM closed three prior investigations into this condition in February 2022, June 2023, and July 2024 based on the available safety field information.

GM's updated field data analysis identified a build period from March 1, 2021, to May 31, 2024, with an increased rate of potentially related engine failure claims. GM's investigator reviewed findings from teardowns of field engines and data from a study of new, unused crankshafts. Supplier manufacturing and quality issues were identified at intermittent periods within the suspect build period, including (1) rod-bearing damage from sediment on connecting rods and crankshaft-oil galleries; and (2) out of specification crankshaft dimensions and surface finish. These issues can cause or contribute to bearing damage that can lead to loss of propulsion and engine failure.

GM's investigation identified 28,102 field complaints or incidents in the US potentially related to failure of the L87 engine due to crankshaft, connecting rod, or engine bearing failure, of which 14,332 involved allegations of loss of propulsion. These field complaints were received between April 29, 2021, and February 3, 2025. GM identified 12 potentially related alleged crashes and 12 potentially related alleged injuries in the U.S.; all specifically alleged injuries were minor or non-physical, and most were not crash related. GM also identified 42 potentially related fire allegations in the U.S., but in the majority of these cases (a) the causation of these incidents is unclear and (b) the alleged fire damage is contained to the engine compartment and consistent with damage that can occur, in rare instances, during engine failure. On April 17, 2025, GM's Safety Field Action Decision Authority (SFADA) decided to conduct a safety recall.

Description of Remedy :

Description of Remedy Program :	Dealers will inspect and, as necessary, repair or replace the engine. Vehicles that pass inspection will be provided a higher viscosity oil, which will also require a new oil fill cap, an oil filter replacement, and an owner's manual insert. Pursuant to 577.11, GM will provide reimbursement to owners for repairs according to the plan submitted under USG 5916 on May 12, 2023.
How Remedy Component Differs from Recalled Component :	Connecting rods and crankshafts in repaired or replaced engines were produced after the suppliers' suspect manufacturing window.
Identify How/When Recall Condition was Corrected in Production :	A series of crankshaft and connecting rod manufacturing improvements implemented on or before June 1, 2024, addressed contamination and quality issues.

Recall Schedule :

Description of Recall Schedule :	Dealers will be notified on April 24, 2025. Owner interim notification is estimated to begin on June 9, 2025. Owner notification of an available remedy will be a phased launch and is estimated to occur June 9, 2025 through September 30, 2025. This recall will be executed under three bulletins: N252494000, N252494001, and N252494002.
Planned Dealer Notification Date :	APR 24, 2025 - APR 24, 2025
Planned Owner Notification Date :	JUN 09, 2025 - SEP 30, 2025

* NR - Not Reported