

Production Dates Begin: 03/01/2021
 End: 05/31/2024

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.

VIN Range(s): Begin: End:

GMC Sierra 1500 2021 - 2024

* **Model Yr. Start:** 2021 * **Model Yr. End:** 2024
* **Make:** GMC
* **Model:** Sierra 1500

Type:

Body Style:

Powertrain:

Production Dates Begin: 03/01/2021
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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.

VIN Range(s): Begin: End:

GMC Yukon 2021 - 2024

* **Model Yr. Start:** 2021 * **Model Yr. End:** 2024
* **Make:** GMC
* **Model:** Yukon

Type:

Body Style:

Powertrain:

Production Dates Begin: 03/01/2021
 End: 05/31/2024

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.

VIN Range(s): Begin: End:

Chevrolet Suburban 2021 - 2024

* **Model Yr. Start:** 2021 * **Model Yr. End:** 2024
* **Make:** Chevrolet

Type:

Body Style:

* **Model:** Suburban

Production Dates Begin: 03/01/2021
 End: 05/31/2024

VIN Range(s): Begin: End:

Powertrain:

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.

Number potentially involved: 597571

Estimated percentage of involved with defect: 3%

Defect / Noncompliance Description

For this Defect/Noncompliance:

*** Describe the defect or noncompliance:**

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.

If a noncompliance, provide the applicable FMVSS:

If applicable, provide any further FMVSS affected:

Describe 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.

*** Describe the safety risk:**

If the engine fails during vehicle operation, the vehicle will lose propulsion, increasing the risk of a crash.

Identify any warning which can precede or 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.

This Recall affects all vehicles.

If applicable, identify the manufacturer of the defective or noncompliant component. If the manufacturer of the component is unknown, provide the information for the company that supplied the subject component.

Component manufacturer

Company Information

Company Name: see attached

Country:

Address 1:

Address 2:

Company Contact Information

First Name:

Last Name:

Position:

Email:

City:

Phone:

State:

Zip/Postal Code:

Involved Components

If the defect or noncompliance involves a specific component(s), identify that component(s) below.

Component Name: CRANKSHAFT ASM

Component Description: L87 Crankshaft

Component Part Number: 12732518

Component Name: ROD ASM-CONN

Component Description: L87 Connecting Rod

Component Part Number: 12714549

Chronology of Defect / Noncompliance Determination

Provide the chronology of events leading up to the defect decision or test data for the noncompliance decision.:

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.

Identify the Remedy

Describe the defect/noncompliance remedy program, including the manufacturer's plan for reimbursement.

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.

Describe what distinguishes the remedy component from the recalled component.

Connecting rods and crankshafts in repaired or replaced engines were produced after the suppliers' suspect manufacturing window.

Identify and describe how and when the 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.

Identify the Recall Schedule

Describe the recall schedule for notifications.:

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 Begin Date:	04/24/2025
Planned Dealer Notification End Date:	04/24/2025
Planned Owner Notification Begin Date:	06/09/2025
Planned Owner Notification End Date:	06/30/2025

Manufacturer's identification code for this recall (if applicable): N252494000

Please be reminded that owner notification letters must be mailed no more than 60 days from submission of this report.

Manufacturer Comments to NHTSA Staff

GM will be implementing a special coverage program to cover the engine in the subject vehicle population that pass inspection and receive the higher viscosity oil. This special coverage will remain in effect for 10 years from the date the vehicle was originally placed in service or until the vehicle reaches 150,000 miles, whichever comes first. The portal will not accept information for more than one supplier. The name and address of the two involved suppliers is submitted as an attachment. Contact information for both suppliers is provided here: American Axle & Manufacturing (connecting rod), Brian Irwin, Sales Manager, 313-758 5143, brian.irwin@aam.com. Questum Macimex (crankshaft), Eliecer Montesinos, +52-722-264-2813, eliecer.montesinos@questum.com. 01May2025 – population reduced by 59 to account for vehicles that have moved in or out of the US; Estimates for phased launch provided

Document Upload

There are 9 documents associated with this report.