

Part 573 Safety Recall Report

23V-445

Manufacturer Name : Mercedes-Benz USA, LLC

Submission Date : SEP 19, 2023

NHTSA Recall No. : 23V-445

Manufacturer Recall No. : 2023070012



Manufacturer Information :

Manufacturer Name : Mercedes-Benz USA, LLC

Address : 13470 International Parkway
Jacksonville FL 32218

Company phone : 1-877-496-3691

Population :

Number of potentially involved : 143,551

Estimated percentage with defect : 99 %

Vehicle Information :

Vehicle 1 : 2021-2023 Mercedes-Benz C300

Vehicle Type : LIGHT VEHICLES

Body Style : SUV

Power Train : GAS

Descriptive Information : 28,628 vehicles. The recall population was determined through production records. Vehicles outside of the recall population have the installed fuel pump impellers that meet the material requirements.

Production Dates : JUN 01, 2021 - NOV 30, 2022

VIN Range 1 : Begin :

NR

End : NR

☐ Not sequential

Vehicle 2 : 2023-2023 Mercedes-Benz S580e

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : HYBRID ELECTRIC

Descriptive Information : 3 vehicles. The recall population was determined through production records. Vehicles outside of the recall population have the installed fuel pump impellers that meet the material requirements.

Production Dates : JUN 01, 2021 - NOV 30, 2022

VIN Range 1 : Begin :

NR

End : NR

☐ Not sequential

Vehicle 3 : 2021-2023 Mercedes-Benz E350

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : GAS

Descriptive Information : 5480 vehicles. The recall population was determined through production records. Vehicles outside of the recall population have the installed fuel pump impellers that meet the material requirements.

Production Dates : JUN 01, 2021 - NOV 30, 2022

VIN Range 1 : Begin :

NR

End : NR

☐ Not sequential

Vehicle 4 : 2022-2023 Mercedes-Benz E450

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : GAS

Descriptive Information : 3290 vehicles. The recall population was determined through production records. Vehicles outside of the recall population have the installed fuel pump impellers that meet the material requirements.

Production Dates : JUN 01, 2021 - NOV 30, 2022

VIN Range 1 : Begin :

NR

End : NR

☐ Not sequential

Vehicle 5 : 2021-2023 Mercedes-Benz AMG C43

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : NR

Descriptive Information : 488 vehicles. The recall population was determined through production records. Vehicles outside of the recall population have the installed fuel pump impellers that meet the material requirements.

Production Dates : JUN 01, 2021 - NOV 30, 2022

VIN Range 1 : Begin :

NR

End : NR

☐ Not sequential

Vehicle 6 : 2021-2022 Mercedes-Benz G550

Vehicle Type : LIGHT VEHICLES

Body Style : SUV

Power Train : GAS

Descriptive Information : 2547 vehicles. The recall population was determined through production records. Vehicles outside of the recall population have the installed fuel pump impellers that meet the material requirements.

Production Dates : JUN 01, 2021 - NOV 30, 2022

VIN Range 1 : Begin :

NR

End : NR

☐ Not sequential

Vehicle 7 : 2021-2021 Mercedes-Benz AMG C63

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : GAS

Descriptive Information : 9 vehicles. The recall population was determined through production records. Vehicles outside of the recall population have the installed fuel pump impellers that meet the material requirements.

Production Dates : JUN 01, 2021 - NOV 30, 2022

VIN Range 1 : Begin :

NR

End : NR

☐ Not sequential

Vehicle 8 : 2021-2023 Mercedes-Benz GLC300

Vehicle Type : LIGHT VEHICLES

Body Style : SUV

Power Train : GAS

Descriptive Information : 43257 vehicles. The recall population was determined through production records. Vehicles outside of the recall population have the installed fuel pump impellers that meet the material requirements.

Production Dates : JUN 01, 2021 - NOV 30, 2022

VIN Range 1 : Begin :

NR

End : NR

☐ Not sequential

Vehicle 9 : 2021-2023 Mercedes-Benz AMG C63 S

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : GAS

Descriptive Information : 33 vehicles. The recall population was determined through production records. Vehicles outside of the recall population have the installed fuel pump impellers that meet the material requirements.

Production Dates : JUN 01, 2021 - NOV 30, 2022

VIN Range 1 : Begin :

NR

End : NR

☐ Not sequential

Vehicle 10 : 2022-2023 Mercedes-Benz AMG E53

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : GAS

Descriptive Information : 1,231 vehicles. The recall population was determined through production records. Vehicles outside of the recall population have the installed fuel pump impellers that meet the material requirements.

Production Dates : JUN 01, 2021 - NOV 30, 2022

VIN Range 1 : Begin :

NR

End : NR

☐ Not sequential

Vehicle 11 : 2023-2023 Mercedes-Benz AMG E63 S

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : GAS

Descriptive Information : 6 vehicles. The recall population was determined through production records. Vehicles outside of the recall population have the installed fuel pump impellers that meet the material requirements.

Production Dates : JUN 01, 2021 - NOV 30, 2022

VIN Range 1 : Begin :

NR

End : NR

☐ Not sequential

Vehicle 12 : 2021-2022 Mercedes-Benz GLE450

Vehicle Type : LIGHT VEHICLES

Body Style : SUV

Power Train : GAS

Descriptive Information : 5583 vehicles. The recall population was determined through production records. Vehicles outside of the recall population have the installed fuel pump impellers that meet the material requirements.

Production Dates : JUN 01, 2021 - NOV 30, 2022

VIN Range 1 : Begin :

NR

End : NR

☐ Not sequential

Vehicle 13 : 2021-2021 Mercedes-Benz GLE580

Vehicle Type : LIGHT VEHICLES

Body Style : SUV

Power Train : GAS

Descriptive Information : 122 vehicles. The recall population was determined through production records. Vehicles outside of the recall population have the installed fuel pump impellers that meet the material requirements.

Production Dates : JUN 01, 2021 - NOV 30, 2022

VIN Range 1 : Begin :

NR

End : NR

☐ Not sequential

Vehicle 14 : 2021-2023 Mercedes-Benz GLS450

Vehicle Type : LIGHT VEHICLES

Body Style : SUV

Power Train : GAS

Descriptive Information : 14485 vehicles. The recall population was determined through production records. Vehicles outside of the recall population have the installed fuel pump impellers that meet the material requirements.

Production Dates : JUN 01, 2021 - NOV 30, 2022

VIN Range 1 : Begin :

NR

End : NR

☐ Not sequential

Vehicle 15 : 2021-2023 Mercedes-Benz AMG G63

Vehicle Type : LIGHT VEHICLES

Body Style : SUV

Power Train : GAS

Descriptive Information : 4,549 vehicles. The recall population was determined through production records. Vehicles outside of the recall population have the installed fuel pump impellers that meet the material requirements.

Production Dates : JUN 01, 2021 - NOV 30, 2022

VIN Range 1 : Begin :

NR

End : NR

☐ Not sequential

Vehicle 16 : 2021-2023 Mercedes-Benz GLS580

Vehicle Type : LIGHT VEHICLES

Body Style : SUV

Power Train : GAS

Descriptive Information : 398 vehicles. The recall population was determined through production records. Vehicles outside of the recall population have the installed fuel pump impellers that meet the material requirements.

Production Dates : JUN 01, 2021 - NOV 30, 2022

VIN Range 1 : Begin :

NR

End : NR

☐ Not sequential

Vehicle 17 : 2022-2022 Mercedes-Benz AMG G63 4x4 Squared

Vehicle Type : LIGHT VEHICLES

Body Style : SUV

Power Train : GAS

Descriptive Information : 47 vehicles. The recall population was determined through production records. Vehicles outside of the recall population have the installed fuel pump impellers that meet the material requirements.

Production Dates : JUN 01, 2021 - NOV 30, 2022

VIN Range 1 : Begin :

NR

End : NR

☐ Not sequential

Vehicle 18 : 2021-2023 Mercedes-Benz Maybach GLS600

Vehicle Type : LIGHT VEHICLES

Body Style : SUV

Power Train : GAS

Descriptive Information : 543 vehicles. The recall population was determined through production records. Vehicles outside of the recall population have the installed fuel pump impellers that meet the material requirements.

Production Dates : JUN 01, 2021 - NOV 30, 2022

VIN Range 1 : Begin :

NR

End : NR

☐ Not sequential

Vehicle 19 : 2021-2023 Mercedes-Benz AMG GLC43

Vehicle Type : LIGHT VEHICLES

Body Style : SUV

Power Train : GAS

Descriptive Information : 2,493 vehicles. The recall population was determined through production records. Vehicles outside of the recall population have the installed fuel pump impellers that meet the material requirements.

Production Dates : JUN 01, 2021 - NOV 30, 2022

VIN Range 1 : Begin :

NR

End : NR

☐ Not sequential

Vehicle 20 : 2021-2023 Mercedes-Benz Maybach S580

Vehicle Type : LIGHT VEHICLES

Body Style : SUV

Power Train : GAS

Descriptive Information : 441 vehicles. The recall population was determined through production records. Vehicles outside of the recall population have the installed fuel pump impellers that meet the material requirements.

Production Dates : JUN 01, 2021 - NOV 30, 2022

VIN Range 1 : Begin :

NR

End : NR

☐ Not sequential

Vehicle 21 : 2022-2023 Mercedes-Benz Maybach S680

Vehicle Type : LIGHT VEHICLES

Body Style : SUV

Power Train : GAS

Descriptive Information : 60 vehicles. The recall population was determined through production records. Vehicles outside of the recall population have the installed fuel pump impellers that meet the material requirements.

Production Dates : JUN 01, 2021 - NOV 30, 2022

VIN Range 1 : Begin :

NR

End : NR

☐ Not sequential

Vehicle 22 : 2021-2021 Mercedes-Benz AMG GLC63

Vehicle Type : LIGHT VEHICLES

Body Style : SUV

Power Train : GAS

Descriptive Information : 43 vehicles. The recall population was determined through production records. Vehicles outside of the recall population have the installed fuel pump impellers that meet the material requirements.

Production Dates : JUN 01, 2021 - NOV 30, 2022

VIN Range 1 : Begin :

NR

End : NR

☐ Not sequential

Vehicle 23 : 2022-2023 Mercedes-Benz S500

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : GAS

Descriptive Information : 5297 vehicles. The recall population was determined through production records. Vehicles outside of the recall population have the installed fuel pump impellers that meet the material requirements.

Production Dates : JUN 01, 2021 - NOV 30, 2022

VIN Range 1 : Begin :

NR

End : NR

☐ Not sequential

Vehicle 24 : 2021-2021 Mercedes-Benz AMG GLC63 S

Vehicle Type : LIGHT VEHICLES

Body Style : SUV

Power Train : GAS

Descriptive Information : 74 vehicles. The recall population was determined through production records. Vehicles outside of the recall population have the installed fuel pump impellers that meet the material requirements.

Production Dates : JUN 01, 2021 - NOV 30, 2022

VIN Range 1 : Begin :

NR

End : NR

☐ Not sequential

Vehicle 25 : 2021-2023 Mercedes-Benz S580

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : GAS

Descriptive Information : 10100 vehicles. The recall population was determined through production records. Vehicles outside of the recall population have the installed fuel pump impellers that meet the material requirements.

Production Dates : JUN 01, 2021 - NOV 30, 2022

VIN Range 1 : Begin :

NR

End : NR

☐ Not sequential

Vehicle 26 : 2021-2022 Mercedes-Benz AMG GLE53

Vehicle Type : LIGHT VEHICLES

Body Style : SUV

Power Train : GAS

Descriptive Information : 5,546 vehicles. The recall population was determined through production records. Vehicles outside of the recall population have the installed fuel pump impellers that meet the material requirements.

Production Dates : JUN 01, 2021 - NOV 30, 2022

VIN Range 1 : Begin :

NR

End : NR

☐ Not sequential

Vehicle 27 : 2022-2022 Mercedes-Benz AMG GLE63

Vehicle Type : LIGHT VEHICLES

Body Style : SUV

Power Train : GAS

Descriptive Information : 1 vehicle. The recall population was determined through production records. Vehicles outside of the recall population have the installed fuel pump impellers that meet the material requirements.

Production Dates : JUN 01, 2021 - NOV 30, 2022

VIN Range 1 : Begin :

NR

End : NR

☐ Not sequential

Vehicle 28 : 2023-2023 Mercedes-Benz AMG SL43

Vehicle Type : LIGHT VEHICLES

Body Style : 2-DOOR

Power Train : GAS

Descriptive Information : 3 vehicles. The recall population was determined through production records. Vehicles outside of the recall population have the installed fuel pump impellers that meet the material requirements.

Production Dates : JUN 01, 2021 - NOV 30, 2022

VIN Range 1 : Begin :

NR

End : NR

☐ Not sequential

Vehicle 29 : 2021-2023 Mercedes-Benz AMG GLE63 S

Vehicle Type : LIGHT VEHICLES

Body Style : SUV

Power Train : GAS

Descriptive Information : 1,925 vehicles. The recall population was determined through production records. Vehicles outside of the recall population have the installed fuel pump impellers that meet the material requirements.

Production Dates : JUN 01, 2021 - NOV 30, 2022

VIN Range 1 : Begin :

NR

End : NR

☐ Not sequential

Vehicle 30 : 2022-2023 Mercedes-Benz AMG SL63

Vehicle Type : LIGHT VEHICLES

Body Style : 2-DOOR

Power Train : GAS

Descriptive Information : 1347 vehicles. The recall population was determined through production records. Vehicles outside of the recall population have the installed fuel pump impellers that meet the material requirements.

Production Dates : JUN 01, 2021 - NOV 30, 2022

VIN Range 1 : Begin :

NR

End : NR

☐ Not sequential

Vehicle 31 : 2021-2023 Mercedes-Benz AMG GLS63

Vehicle Type : LIGHT VEHICLES

Body Style : SUV

Power Train : GAS

Descriptive Information : 1,072 vehicles. The recall population was determined through production records. Vehicles outside of the recall population have the installed fuel pump impellers that meet the material requirements.

Production Dates : JUN 01, 2021 - NOV 30, 2022

VIN Range 1 : Begin :

NR

End : NR

☐ Not sequential

Vehicle 32 : 2022-2023 Mercedes-Benz AMG GT43

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : GAS

Descriptive Information : 1,230 vehicles. The recall population was determined through production records. Vehicles outside of the recall population have the installed fuel pump impellers that meet the material requirements.

Production Dates : JUN 01, 2021 - NOV 30, 2022

VIN Range 1 : Begin :

NR

End : NR

☐ Not sequential

Vehicle 33 : 2022-2023 Mercedes-Benz AMG GT53

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : GAS

Descriptive Information : 1,525 vehicles. The recall population was determined through production records. Vehicles outside of the recall population have the installed fuel pump impellers that meet the material requirements.

Production Dates : JUN 01, 2021 - NOV 30, 2022

VIN Range 1 : Begin :

NR

End : NR

☐ Not sequential

Vehicle 34 : 2023-2023 Mercedes-Benz AMG GT63

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : GAS

Descriptive Information : 5 vehicles. The recall population was determined through production records. Vehicles outside of the recall population have the installed fuel pump impellers that meet the material requirements.

Production Dates : JUN 01, 2021 - NOV 30, 2022

VIN Range 1 : Begin :

NR

End : NR

☐ Not sequential

Vehicle 35 : 2023-2023 Mercedes-Benz AMG GT63 S

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : GAS

Descriptive Information : 2 vehicles. The recall population was determined through production records. Vehicles outside of the recall population have the installed fuel pump impellers that meet the material requirements.

Production Dates : JUN 01, 2021 - NOV 30, 2022

VIN Range 1 : Begin :

NR

End : NR

☐ Not sequential

Vehicle 36 : 2022-2023 Mercedes-Benz CLS450

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : GAS

Descriptive Information : 767 vehicles. The recall population was determined through production records. Vehicles outside of the recall population have the installed fuel pump impellers that meet the material requirements.

Production Dates : JUN 01, 2021 - NOV 30, 2022

VIN Range 1 : Begin :

NR

End : NR

☐ Not sequential

Vehicle 37 : 2022-2023 Mercedes-Benz AMG SL55

Vehicle Type : LIGHT VEHICLES

Body Style : 2-DOOR

Power Train : GAS

Descriptive Information : 921 vehicles. The recall population was determined through production records. Vehicles outside of the recall population have the installed fuel pump impellers that meet the material requirements.

Production Dates : JUN 01, 2021 - NOV 30, 2022

VIN Range 1 : Begin :

NR

End : NR

☐ Not sequential

Description of Defect :

Description of the Defect : Mercedes-Benz AG ("MBAG"), the manufacturer of Mercedes-Benz vehicles, has determined that on certain Model Year ("MY") 2021-2023 GLE/GLS (167 platform), C-Class (205, 206 platform), E-Class (213 platform), S-Class (223 platform), SL (232 platform), E-Class Coupe/Convertible (238 platform), GLC (253 platform), CLS (257 platform), AMG GT 4-doors Coupe (290 platform) and G-Class (463 platform) vehicles, the fuel pump impeller might not meet current specifications in regards to material characteristics.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : As a consequence, the impeller might deform and therefore come into contact with the fuel pump housing, leading to a mechanical resistance. In some instances, this could lead to a shutdown of the fuel pump. As a result, the vehicle could lose propulsion, which could increase the risk of crash or injury.

Description of the Cause : Due to a deviation in the production process of a sub-supplier, certain fuel pump impellers might not meet the material requirements and thus certain batches of fuel delivery modules might not meet the durability requirements.

Identification of Any Warning that can Occur : Before the fuel pump is switched off, the driver may be made aware of a malfunction by a warning message in the instrument cluster and might notice the engine running rough.

Involved Components :

Component Name 1 : Fuel Delivery Unit

Component Description : Fuel Delivery Unit

Component Part Number : A1674700394

Component Name 2 : Fuel Delivery Unit

Component Description : Fuel Delivery Unit

Component Part Number : A1674704500

Component Name 3 : Fuel Delivery Unit

Component Description : Fuel Delivery Unit

Component Part Number : A1674706900

Component Name 4 : Fuel Delivery Unit

Component Description : Fuel Delivery Unit

Component Part Number : A2054702702

Component Name 5 : Fuel Delivery Unit

Component Description : Fuel Delivery Unit

Component Part Number : A2054704900

Component Name 6 : Fuel Delivery Unit

Component Description : Fuel Delivery Unit

Component Part Number : A2054708501

Component Name 7 : Fuel Delivery Unit

Component Description : Fuel Delivery Unit

Component Part Number : A2064700202

Component Name 8 : Fuel Delivery Unit

Component Description : Fuel Delivery Unit

Component Part Number : A2064704401

Component Name 9 : Fuel Delivery Unit

Component Description : Fuel Delivery Unit

Component Part Number : A2064704501

Component Name 10 : Fuel Delivery Unit

Component Description : Fuel Delivery Unit

Component Part Number : A2234703301

Component Name 11 : Fuel Delivery Unit

Component Description : Fuel Delivery Unit

Component Part Number : A2234709601

Component Name 12 : Fuel Delivery Unit

Component Description : Fuel Delivery Unit

Component Part Number : A2324700000

Component Name 13 : Fuel Delivery Unit

Component Description : Fuel Delivery Unit

Component Part Number : A4634705900

Supplier Identification :

Component Manufacturer

Name : Hyundam Industrial Co., Ltd.

Address : 29, Yeongni-gil Yeongin-myeon, Asan-si,
Chung Cheong Nam-Do Foreign States

Country : Korea, Democratic People's Republic of

Chronology :

In the beginning of June 2022, MBAG launched initial investigations based on individual field reports from outside the US alleging inconsistent power delivery. MBAG hypothesized that, the function of the fuel pump might have been impaired without having any initial indications in regards to common influencing factors on the field cases in this relation. In July 2022, MBAG began retrieving fuel pumps from affected vehicles in the field and analyzing them in coordination with the supplier. Over the next several months, MBAG conducted analyses of the material together with the supplier, as well as the production processes at the supplier and its sub-suppliers. Through the end of the year, MBAG conducted numerous and varied tests in coordination with its tier one supplier, including fuel swelling behavior, structural damage and notched impact resistance tests. In December 2022, these intensive analyses and tests identified an irregularity in individual raw material batches used for the suspect fuel pump impellers, sourced from a sub-supplier. Based on that determination, in January 2023, MBAG's supplier of the suspect fuel pump started investigations to identify the potentially affected vehicle population by tracking the material flow within the multi-supplier chain from the raw material sub-supplier up to the fuel pump manufacturer. At the same time, the fuel pump supplier implemented several changes in its production process, including a replacement of the raw material supplier, changing the injection molding process at the injection molding supplier and implementing more quality controls within the supplier chain. Through May 2023, MBAG and its fuel pump supplier conducted further testing and analyses to identify potential influencing factors and determine potential consequences of material and process anomalies at different steps of the production process. Please see chronology supplement attached.

Description of Remedy :

Description of Remedy Program : An authorized Mercedes-Benz dealership will replace the fuel delivery module on the affected vehicles.
Pursuant to 49 C.F.R. § 577.11(e), MBUSA does not plan to provide notice about pre-notice reimbursement to owners since none of the involved vehicles would have been previously subject to the condition described and all remain covered under the new vehicle warranty

How Remedy Component Differs from Recalled Component : Fuel pump impellers that meet the material requirements.

Fuel DELIVERY UNIT A1674700394
Fuel DELIVERY UNIT A1674704500
Fuel DELIVERY UNIT A1674706900
Fuel DELIVERY UNIT A2054702702
Fuel DELIVERY UNIT A2054704900
Fuel DELIVERY UNIT A2054708501
Fuel DELIVERY UNIT A2064700202
Fuel DELIVERY UNIT A2064704401
Fuel DELIVERY UNIT A2064704501
Fuel DELIVERY UNIT A2234703301
Fuel DELIVERY UNIT A2234709601
Fuel DELIVERY UNIT A2324700000
Fuel DELIVERY UNIT A4634705900

Identify How/When Recall Condition was Corrected in Production : A change in the production process at suppliers ensures that this issue can no longer occur from May 01, 2023 onwards.

Recall Schedule :

Description of Recall Schedule : Authorized Mercedes-Benz dealerships will be notified of the pending voluntary recall campaign on July 3, 2023. Owners were notified of the voluntary recall campaign on August 18, 2023. A copy of all communications will be provided when available.

Planned Dealer Notification Date : JUL 03, 2023 - NR

Planned Owner Notification Date : AUG 18, 2023 - NR

* NR - Not Reported