OMB Control No.: 2127-0004

Not sequential

# Part 573 Safety Recall Report

# 23V-445

Manufacturer Name: Mercedes-Benz USA, LLC

**Submission Date:** DEC 29, 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 : 100 %

#### **Vehicle Information:**

Vehicle 1: 2021-2023 Mercedes-Benz C300

Vehicle Type: LIGHT VEHICLES

Body Style : 4-DOOR 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

Vehicle 2: 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

Vehicle 3:	2021-2023 Mer	cedes-Benz E3	50		
Vehicle Type :	LIGHT VEHICLE	S			
Body Style :					
Power Train :					
Descriptive Information :	5 480 vehicles T	The recall nonu	ılation w	vas determined thro	ugh production records
Descriptive information.		of the recall p	opulatio		fuel pump impellers that
		-	LS.		
Production Dates :	,		гі	ND	
VIN Range 1:	Begin:	NR	End:	NR	Not sequential
Valatala 4.	9099 9099 Man	d D E4	<b>50</b>		
	2022-2023 Mer		30		
<b>0</b> 1	LIGHT VEHICLE	S			
Body Style :					
Power Train:					
Descriptive Information :					0 1
	meet the materi			on nave the installed	fuel pump impellers that
Des Jest's Determine		_	LS.		
Production Dates:	,		F. J.	ND	□ N.4
VIN Range 1:	Begin:	NR	End:	NK	■ Not sequential
Vehicle 5	2021-2023 Mer	redes-Benz AM	IG C43		
	LIGHT VEHICLE		10 0 10		
Body Style :		5			
Power Train :					
		11 1		1 1.1	
Descriptive Information :					gn production records. fuel pump impellers that
	meet the materi	-	-	ni nave tile installed	ruei pump impeners mat
	moot the mater	ar requirement			
<b>Production Dates:</b>	JUN 01, 2021 - N	OV 30, 2022			
VIN Range 1:	Begin:	NR	End:	NR	☐ Not sequential
	2021-2023 Mer		50		
Vehicle Type :	LIGHT VEHICLE	S			
Body Style :	SUV				
Power Train :	GAS				
Descriptive Information :	2,547 vehicles.	The recall popu	lation w	as determined thro	ugh production records.
	Vehicles outside	of the recall p	opulatio	on have the installed	fuel pump impellers that
	meet the materi	al requiremen	ts.		
Production Dates :	JUN 01, 2021 - N	OV 30, 2022			
VIN Range 1:	Begin:	NR	End:	NR	Not sequential

Vehicle 7:	2021-2021 Mer	cedes-Benz AM	G C63		
Vehicle Type :	LIGHT VEHICLE	S			
Body Style :					
Power Train:					
Descriptive Information :	9 vehicles The r	recall nonulatio	n was d	etermined thr	ough production records
Descriptive information.	Vehicles outside	e of the recall po	pulatio		talled fuel pump impellers that
	meet the materi	al requirement	S.		
Production Dates :	IIIN 01 2021 - N	JOV 30, 2022			
VIN Range 1:		NR	End:	NR	☐ Not sequential
VIIV Mange 1.	Degiii.		Liiu .		Not sequential
Vehicle 8:	2021-2023 Mer	cedes-Benz GL0	C300		
Vehicle Type :	LIGHT VEHICLE	S			
Body Style :					
Power Train :					
Descriptive Information :	43.257 vehicles.	. The recall pop	ulation	was determin	ed through production records.
					talled fuel pump impellers that
	meet the materi	al requirement	S.		
D 1 4 D 1	HIN 04 0004 N	1011 00 0000			
Production Dates :			<b>.</b>	ND	
VIN Range 1:	Begin:	NR	End:	NR	☐ Not sequential
Vehicle 9 ·	2021-2023 Mer	cedes-Renz AM	C C63 S		
	LIGHT VEHICLE		u 000 5		
Body Style:		i.)			
Power Train:					
				1.4	
Descriptive Information :					rough production records. talled fuel pump impellers that
	meet the materi	-	-	ii iiave tile iiis	taneu iuei puinp impeners that
		1			
Production Dates :	JUN 01, 2021 - N	IOV 30, 2022			
VIN Range 1:	Begin:	NR	End:	NR	☐ Not sequential
Vahiala 10.	2021-2023 Mer	oodoa Dong AM	C E52		
			G EJJ		
• -	LIGHT VEHICLE	<b>.</b> ப			
Body Style : Power Train :					
		m 11			1.1
Descriptive Information :					d through production records.
	meet the materi	-	-	n nave the ins	talled fuel pump impellers that
	most the muter	ar requirement	<b>.</b> .		
<b>Production Dates:</b>	JUN 01, 2021 - N	IOV 30, 2022			
VIN Range 1:	Begin:	NR	End:	NR	☐ Not sequential

			G E63 S					
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 - N	IOV 30, 2022						
VIN Range 1:		NR	End:	NR	☐ Not sequential			
Vehicle 12:	2021-2023 Mer	cedes-Benz GL	E <b>450</b>					
Vehicle Type :	LIGHT VEHICLE	S						
Body Style :								
Power Train :	GAS							
Descriptive Information :		of the recall p	opulatio		ed through production records. nstalled fuel pump impellers that			
Production Dates :	JUN 01, 2021 - N	IOV 30, 2022						
VIN Range 1:		NR	End:	NR	☐ Not sequential			
	<u> </u>				_ :			
Vehicle 13:	2021-2021 Mer	cedes-Benz GL	E580					
Vehicle Type :	LIGHT VEHICLE	S						
Body Style :	SUV							
Power Train :	GAS							
Descriptive Information :		of the recall p	opulatio		d through production records. nstalled fuel pump impellers that			
Production Dates :	JUN 01, 2021 - N	IOV 30, 2022						
VIN Range 1:	,	NR	End:	NR	☐ Not sequential			
	8 :							
Vehicle 14:	2021-2023 Mer	cedes-Benz GLS	S450					
Vehicle Type :	LIGHT VEHICLE	S						
Body Style :	SUV							
Power Train :								
Descriptive Information :	14485 vehicles	The recall pop	ılation v	was determi	ned through production records.			
		of the recall p	opulatio		nstalled fuel pump impellers that			
Production Dates :	JUN 01, 2021 - N	IOV 30, 2022						
VIN Range 1:		NR	End:	NR	☐ Not sequential			

Vehicle 15:	2021-2023 Mer	cedes-Benz AM	G G63		
Vehicle Type :	LIGHT VEHICLE	S			
Body Style :					
Power Train :					
Descriptive Information :	4,549 vehicles.	The recall popu	lation w	as determined t	hrough production records.
1	Vehicles outside	e of the recall po	opulatio		lled fuel pump impellers that
	meet the materi	al requirement	S.		
Production Dates :	IIIN 01 2021 - N	IOV 30-2022			
VIN Range 1:		NR	End:	NR	☐ Not sequential
VIIV Range 1.	Degiii.	TVIC	Liiu .	TVIC	Not sequential
Vehicle 16:	2021-2023 Mer	cedes-Benz GLS	S580		
	LIGHT VEHICLE				
Body Style :					
Power Train :					
Descriptive Information :	398 vehicles. Th	ie recall popula	tion wa	s determined th	rough production records.
					lled fuel pump impellers that
	meet the materi	al requirement	S.		
	HIN 01 0001 N	101/00 0000			
Production Dates:			F., J.	NID	□ N
VIN Range 1:	Begin:	NR	End:	NK	☐ Not sequential
Vehicle 17:	2022-2022 Mer	cedes-Benz AM	G G63 4	x4 Squared	
	LIGHT VEHICLE			ar oquarou	
Body Style :					
Power Train :					
Descriptive Information :		recall nonulati	on was	determined thro	ough production records
Descriptive information.					lled fuel pump impellers that
	meet the materi	-	-		
	HIN 01 0001 N	101/00 0000			
Production Dates:			E., J.	NID	Not so successful
VIN Range 1:	Begin:	NR	End:	NK	☐ Not sequential
Vehicle 18:	2021-2023 Mer	cedes-Benz Ma	vbach G	LS600	
	LIGHT VEHICLE	•	,		
Body Style :					
Power Train:					
		e recall nonula	tion wa	s determined th	rough production records.
Descriptive information.					lled fuel pump impellers that
	meet the materi	-	-		
Decident Decident	HIN 01 0001 N	101/20 2022			
Production Dates:			$T_{m} \cdot 1$	ND	N
VIN Range 1:	ъедіп :	NR	End:	INK	☐ Not sequential

Vehicle 19:	2021-2023 Mer	cedes-Benz AM	G GLC4	3	
Vehicle Type :	LIGHT VEHICLE	S			
Body Style :	SUV				
Power Train :	GAS				
Descriptive Information :					ed through production records.
		-	-	n have the i	nstalled fuel pump impellers that
	meet the materi	ai requirement	S.		
Production Dates :	JUN 01, 2021 - N	IOV 30, 2022			
VIN Range 1:	Begin:	NR	End:	NR	☐ Not sequential
Vehicle 20:	2021-2023 Mer	cedes-Benz Ma	ybach S	580	
V -	LIGHT VEHICLE	S.S			
Body Style :					
Power Train :	GAS				
Descriptive Information :					d through production records.
		-	-	n have the i	nstalled fuel pump impellers that
	meet the materi	arrequirement	.3.		
Production Dates :	JUN 01, 2021 - N	IOV 30, 2022			
VIN Range 1:	Begin:	NR	End:	NR	☐ Not sequential
W. L. L. 04	0000 0000 15	1 2 1	1 1 0	000	
	2022-2023 Mer	· ·	ybach S	680	
<b>V</b> 1	LIGHT VEHICLE				
Body Style : Power Train :					
		11 1		1 1	
Descriptive Information :					through production records. nstalled fuel pump impellers that
	meet the materi	-	-	ii nave tile n	instance ruer pump impeners that
		_			
Production Dates :					
VIN Range 1:	Begin:	NR	End:	NR	☐ Not sequential
Vehicle 22:	2021-2021 Mer	cedes-Benz AM	G GLC6	3	
	LIGHT VEHICLE		d dLcc	<b>O</b>	
Body Style :					
Power Train:					
Descriptive Information :	43 vehicles. The	recall populati	on was	determined	through production records.
r					nstalled fuel pump impellers that
	meet the materi	al requirement	S.		
Production Dates :	II IN 01 2021 - N	IOV 30-2022			
VIN Range 1:		NR	End:	NR.	☐ Not sequential
in minge 1.	208	1110	Liiu .	. 110	Not sequential

			00					
	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 - N	IOV 30, 2022						
VIN Range 1:		NR	End:	NR	☐ Not sequential			
	8							
			G GLC6	3 S				
Descriptive Information :		e of the recall po	opulatio		through production records. Istalled fuel pump impellers that			
Production Dates :	JUN 01, 2021 - N	IOV 30, 2022						
VIN Range 1:	Begin:	NR	End:	NR	■ Not sequential			
Vehicle Type : Body Style : Power Train :	GAS 10100 vehicles.	The recall popule of the recall po	ulation v		ned through production records. Istalled fuel pump impellers that			
Production Dates :	JUN 01, 2021 - N	IOV 30, 2022						
VIN Range 1:	Begin:	NR	End:	NR	■ Not sequential			
Vehicle Type : Body Style : Power Train :	GAS 5,546 vehicles. T	S The recall popu e of the recall po	lation w	vas determin	ed through production records. estalled fuel pump impellers that			
n	<b>***</b> *********************************	-						
Production Dates:			E. 1	ND	□ N			
VIN Range 1:	begin:	NR	End:	NK	☐ Not sequential			

	2022-2022 Mer		G GLE6	3					
V -	LIGHT VEHICLE	ZS .							
Body Style :									
Power Train :	GAS								
Descriptive Information :	outside of the re	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 - N	IOV 30, 2022							
VIN Range 1:		NR	End:	NR	☐ Not sequential				
	0				· · · · · · · · · · · · · · · · · · ·				
Vehicle 28:	2023-2023 Mer	cedes-Benz AM	G SL43						
Vehicle Type :	LIGHT VEHICLE	ES							
Body Style :	2-DOOR								
Power Train :	GAS								
Descriptive Information :		e of the recall po	opulatio		hrough production records. nstalled fuel pump impellers that				
Production Dates :	JUN 01. 2021 - N	IOV 30. 2022							
VIN Range 1:		NR	End:	NR	☐ Not sequential				
	2021-2023 Mer		G GLE6	3 S					
	LIGHT VEHICLE	<b>ES</b>							
Body Style :									
Power Train :	GAS								
Descriptive Information :		e of the recall po	opulatio		ned through production records. nstalled fuel pump impellers that				
Production Dates :	IUN 01 2021 - N	JOV 30, 2022							
VIN Range 1:		NR	End:	NR	☐ Not sequential				
	8				L 1				
Vehicle 30:	2022-2023 Mer	cedes-Benz AM	G SL63						
Vehicle Type :	LIGHT VEHICLE	ES							
Body Style :	2-DOOR								
Power Train :	GAS								
Descriptive Information :		e of the recall po	opulatio		ed through production records. nstalled fuel pump impellers that				
Production Dates :	JUN 01, 2021 - N	IOV 30, 2023							
VIN Range 1:		NR	End:	NR	☐ Not sequential				

Vehicle 31:	2021-2023 Mer	cedes-Benz AM	G GLS6	3	
Vehicle Type :	LIGHT VEHICLE	ES .			
Body Style :					
Power Train :					
Descriptive Information :	1.072 vehicles.	The recall popu	lation w	as determine	ed through production records.
2 00 01 1 <b>p</b> 11 1 0 1111 0111 111 011 1					stalled fuel pump impellers that
	meet the materi	ial requirement	S.		
Production Dates :	IIIN 01 2021 - N	IOV 30-2022			
VIN Range 1:		NR	End:	ND	☐ Not sequential
viiv ivange 1.	Degiii.	INIC	Liiu.	INIC	□ Not sequential
Vehicle 32:	2022-2023 Mer	cedes-Benz AM	G GT43		
	LIGHT VEHICLE				
Body Style :					
Power Train:					
		The recall nonu	lation w	as determine	ed through production records.
Descriptive information.					stalled fuel pump impellers that
	meet the materi	-	-		
Production Dates :			- 1		
VIN Range 1:	Begin:	NR	End:	NR	☐ Not sequential
Vehicle 33:	2022-2023 Mer	cedes-Renz AM	C CT53		
	LIGHT VEHICLE		u u 100		
Body Style :		15			
Power Train :					
		The recall nonul	otion w	aa datarmina	d through production records
Descriptive information :					d through production records. stalled fuel pump impellers that
	meet the materi	-	-	mave the m	stanca raci pamp impeners that
		_			
Production Dates :					
VIN Range 1:	Begin:	NR	End:	NR	☐ Not sequential
Vahiala 24 :	2023-2023 Mer	codos Ponz AM	C CTG2		
	LIGHT VEHICLE		G G103		
		ى كى			
Body Style : Power Train :					
		n 1		1.1	
Descriptive Information :					rough production records.
	meet the materi	-	-	n nave ule III	stalled fuel pump impellers that
	most the muter	and requirement	~•		
<b>Production Dates:</b>	JUN 01, 2021 - N	IOV 30, 2022			
VIN Range 1:	Begin:	NR	End:	NR	■ Not sequential

Vehicle 35:	2023-2023 Mei	rcedes-Benz A	MG GT63 S					
	LIGHT VEHICL		Mid dioos					
Body Style :								
Power Train :								
		recall nonulat	ion was determined	l through product	ion records			
Descriptive information.	Vehicles outsid	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 Mei	rcedes-Benz C	LS450					
Vehicle Type :	LIGHT VEHICL	LIGHT VEHICLES						
Body Style :								
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:		NR	End: NR		☐ Not sequential			
					ш і			
Vehicle 37:	2023-2023 Mei	rcedes-Benz S	580e					
Vehicle Type :	LIGHT VEHICL	ES						
Body Style :	4-DOOR							
Power Train :	HYBRID ELECT	RIC						
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			

# **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, 254 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 Before the fuel pump is switched off, the driver may be made aware of a

that can Occur: 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

Component Name 14: Fuel Delivery Unit Component Description: Fuel Delivery Unit Component Part Number: A2544702300

#### **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 subsupplier 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 updated 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 Fuel pump impellers that meet the material requirements.

from Recalled Component: Fuel DELIVERY UNIT A1674700394

Fuel DELIVERY UNIT A1674704500
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

Identify How/When Recall Condition A change in the production process at suppliers ensures that this issue can was Corrected in Production: no longer occur from April 03, 2023 onwards.

Fuel DELIVERY UNIT A4634705900

**Fuel DELIVERY UNIT** 

#### **Recall Schedule:**

Description of Recall Schedule: Authorized Mercedes-Benz dealerships will be notified of the pending

voluntary recall campaign on July 3, 2023 and on December 21, 2023 for the additional vehicles. Owners were notified of the voluntary recall campaign on August 18, 2023. Owners for the additional VINs will be notified of the voluntary recall campaign before February 13, 2024. A copy of all communications will be provided when available.

A2544702300

Planned Dealer Notification Date : JUL 03, 2023 - NR Planned Owner Notification Date : AUG 18, 2023 - NR

\* NR - Not Reported