Part 573 Safety Recall Report 22V-482

Manufacturer Name : Daimler Vans USA, LLC
Submission Date : JUL 07, 2022
NHTSA Recall No. : 22V-482
Manufacturer Recall No. : VS2LASTRE

Manufacturer Information :

Manufacturer Name : Daimler Vans USA, LLC
Address : One Mercedes-Benz Drive
Sandy Springs GA 30328
Company phone : 8777628267

Population :

Number of potentially involved : 24,403
Estimated percentage with defect : 100 %

Vehicle Information :

Vehicle 1 : 2016-2018 Mercedes-Benz Metris
Vehicle Type : LIGHT VEHICLES
Body Style : VAN
Power Train : GAS
Descriptive Information : The subject vehicles are fitted with P-metric tires for installation. When P-metric tires are used in MPV, truck, bus or trailers, FMVSS 110, 4.2.2.2 provides that each tire's maximum load rating is to be reduced by 1.10 before the manufacturer determines the maximum load ratings of the tires fitted to each axle.

The subject vehicles were certified with a maximum load rating for each tire of 775 kg (1708 pounds) or 1,550 kg (3417 pounds) combined, per axle. Under the procedure in FMVSS 110, S4.2.2.2, after reducing the maximum load rating by 1.1, the P-metric tires on the subject vehicles would have had a maximum load rating of 750 kg (1636 pounds) per tire and 1500 kg (3307 pounds) per axle. This value is slightly (50 kg or 110 pounds) below the GAWR for the front and rear axles.

According to specification, these tires are to be operated at a minimum pressure of 2.7 bar. Accordingly, they have a tire pressure reserve of 9% and a payload reserve of 6.5% at 1,550 kg axle load (1650 kg to 1550 kg) instead of the specified 10%.

Production Dates : MAR 31, 2015 - SEP 29, 2018
VIN Range 1 : Begin : NR End : NR ☐ Not sequential

Description of Noncompliance :

Description of the Noncompliance : Mercedes-Benz AG ("MBAG"), the manufacturer of Mercedes-Benz vans, has determined that in certain Mercedes-Benz Metris vehicles (Platform 447), the sum of the maximum load ratings of the tires may exceed the permissible maximum axle load rating pursuant to FMVSS 110, S4.2.2.2.

FMVSS 1 :	110 - Tire selection and rims
FMVSS 2 :	NR
Description of the Safety Risk :	Overloading over time could cause an excessive tire wear and in a worst case scenario, could lead to tire failure, increasing the risk of a crash.
Description of the Cause :	The design of the VS20 NAFTA tires was carried out jointly with tire supplier Continental according to European Tire and Rim Technical Organization ("ETRTO") specifications. Due to an oversight, a 1.10 reduction on each tire's maximum load rating was not applied before the maximum load rating was set for vans distributed in the United States.
Identification of Any Warning that can Occur :	If the tires were to experience a loss of tire pressure, the driver would be quickly alerted to this condition by the TPMS warning signal in the instrument cluster and could take appropriate mitigation measures.

Involved Components :

Component Name 1 :	NR
Component Description :	NR
Component Part Number :	NR

Supplier Identification :

Component Manufacturer

Name :	NR
Address :	NR
	NR
Country :	NR

Chronology :

Mercedes-Benz AG became aware of this issue during the advanced development phase of the successor platform together with the tire supplier Continental.

Upon identification, analysis and evaluation as to the root cause and impact of this issue were commenced.

On October 12, 2018, MBAG made a determination of a noncompliance with the requirements of FMVSS 110, S4.2.2.2.

MBAG initially determined that this noncompliance was inconsequential as it relates to motor vehicle safety,

and MBAG submitted a petition for inconsequential noncompliance ("inconsequentiality petition").

MBAG is not aware of any crashes or customer complaints related to this matter.

On June 21, 2022, NHTSA denied MBAG's petition for inconsequentiality.

In accordance with that denial MBAG will conduct a recall.

Description of Remedy :

Description of Remedy Program :	Appropriate remedy is currently under review by the manufacturer.
How Remedy Component Differs from Recalled Component :	Appropriate remedy is currently under review by the manufacturer.
Identify How/When Recall Condition was Corrected in Production :	The maximum axle load rating was changed to 1,500 kg (3307 pounds) in series production on 09/28/2018. From this date the requirements of FMVSS 110, S4.2.2.2 are fulfilled in series production.

Recall Schedule :

Description of Recall Schedule :	Dealers will be notified of the pending voluntary recall campaign beginning in July 2022. Copies of communications will be provided when available.
Planned Dealer Notification Date :	JUL 18, 2022 - JUL 18, 2022
Planned Owner Notification Date :	JUL 25, 2022 - JUL 25, 2022

* NR - Not Reported