Part 573 Safety Recall Report 19V-370

Manufacturer Name : Daimler Trucks North America LLC
Submission Date : JUN 06, 2019
NHTSA Recall No. : 19V-370
Manufacturer Recall No. : FL-815

NHTSA
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION

Manufacturer Information :

Manufacturer Name : Daimler Trucks North America LLC
Address : 4747 N. Channel Avenue
Portland OR 97217-3849
Company phone : 800-745-8000

Population :

Number of potentially involved : 741
Estimated percentage with defect : 100 %

Vehicle Information :

Vehicle 1 : 2004-2019 Freightliner 108SD
Vehicle Type :
Body Style :
Power Train : NR
Descriptive Information : Certain vehicle configurations with air tank reservoir volume with less than 12:1 ratio brake chamber volume.
Production Dates : JAN 08, 2004 - OCT 12, 2018
VIN Range 1 : Begin : NR End : NR ☐ Not sequential

Vehicle 2 : 2004-2019 Freightliner 114SD
Vehicle Type :
Body Style :
Power Train : NR
Descriptive Information : Certain vehicle configurations with air tank reservoir volume with less than 12:1 ratio brake chamber volume.
Production Dates : JAN 08, 2004 - OCT 12, 2018
VIN Range 1 : Begin : NR End : NR ☐ Not sequential

Vehicle 3 : 2004-2019 Freightliner 122SD
Vehicle Type :
Body Style :
Power Train : NR
Descriptive Information : Certain vehicle configurations with air tank reservoir volume with less than 12:1 ratio brake chamber volume.
Production Dates : JAN 08, 2004 - OCT 12, 2018
VIN Range 1 : Begin : NR End : NR ☐ Not sequential

Vehicle 4 : 2004-2019 Freightliner Cascadia

Vehicle Type :
Body Style :
Power Train : NR
Descriptive Information : Certain vehicle configurations with air tank reservoir volume with less than 12:1 ratio brake chamber volume.
Production Dates : JAN 08, 2004 - OCT 12, 2018
VIN Range 1 : Begin : NR End : NR ☐ Not sequential

Vehicle 5 : 2004-2019 Freightliner Columbia
Vehicle Type :
Body Style :
Power Train : NR
Descriptive Information : Certain vehicle configurations with air tank reservoir volume with less than 12:1 ratio brake chamber volume.
Production Dates : JAN 08, 2004 - OCT 12, 2018
VIN Range 1 : Begin : NR End : NR ☐ Not sequential

Vehicle 6 : 2004-2019 Freightliner Classic
Vehicle Type :
Body Style :
Power Train : NR
Descriptive Information : Certain vehicle configurations with air tank reservoir volume with less than 12:1 ratio brake chamber volume.
Production Dates : JAN 08, 2004 - OCT 12, 2018
VIN Range 1 : Begin : NR End : NR ☐ Not sequential

Vehicle 7 : 2004-2019 Freightliner FL80
Vehicle Type :
Body Style :
Power Train : NR
Descriptive Information : Certain vehicle configurations with air tank reservoir volume with less than 12:1 ratio brake chamber volume.
Production Dates : JAN 08, 2004 - OCT 12, 2018
VIN Range 1 : Begin : NR End : NR ☐ Not sequential

Vehicle 8 : 2004-2019 Freightliner FLD 120SD
Vehicle Type :
Body Style :
Power Train : NR
Descriptive Information : Certain vehicle configurations with air tank reservoir volume with less than 12:1 ratio brake chamber volume.
Production Dates : JAN 08, 2004 - OCT 12, 2018
VIN Range 1 : Begin : NR End : NR ☐ Not sequential

Vehicle 9 :	2004-2019 Freightliner Business Class M2
Vehicle Type :	
Body Style :	
Power Train :	NR
Descriptive Information :	Certain vehicle configurations with air tank reservoir volume with less than 12:1 ratio brake chamber volume.
Production Dates :	JAN 08, 2004 - OCT 12, 2018
VIN Range 1 :	Begin : NR End : NR ☐ Not sequential

Vehicle 10 :	2004-2019 Western Star 4700
Vehicle Type :	
Body Style :	
Power Train :	NR
Descriptive Information :	Certain vehicle configurations with air tank reservoir volume with less than 12:1 ratio brake chamber volume.
Production Dates :	JAN 08, 2004 - OCT 12, 2018
VIN Range 1 :	Begin : NR End : NR ☐ Not sequential

Vehicle 11 :	2004-2019 Western Star 4900
Vehicle Type :	
Body Style :	
Power Train :	NR
Descriptive Information :	Certain vehicle configurations with air tank reservoir volume with less than 12:1 ratio brake chamber volume.
Production Dates :	JAN 08, 2004 - OCT 12, 2018
VIN Range 1 :	Begin : NR End : NR ☐ Not sequential

Vehicle 12 :	2004-2019 Western Star 6900
Vehicle Type :	
Body Style :	
Power Train :	NR
Descriptive Information :	Certain vehicle configurations with air tank reservoir volume with less than 12:1 ratio brake chamber volume.
Production Dates :	JAN 08, 2004 - OCT 12, 2018
VIN Range 1 :	Begin : NR End : NR ☐ Not sequential

Vehicle 13 :	2004-2019 Sterling Acterra
Vehicle Type :	
Body Style :	
Power Train :	NR
Descriptive Information :	Certain vehicle configurations with air tank reservoir volume with less than 12:1 ratio brake chamber volume.

Production Dates : JAN 08, 2004 - OCT 12, 2018
VIN Range 1 : Begin : NR End : NR ☐ Not sequential

Vehicle 14 : 2004-2019 Sterling L7500
Vehicle Type :
Body Style :
Power Train : NR
Descriptive Information : Certain vehicle configurations with air tank reservoir volume with less than 12:1 ratio brake chamber volume.
Production Dates : JAN 08, 2004 - OCT 12, 2018
VIN Range 1 : Begin : NR End : NR ☐ Not sequential

Vehicle 15 : 2004-2019 Sterling LT7500
Vehicle Type :
Body Style :
Power Train : NR
Descriptive Information : Certain vehicle configurations with air tank reservoir volume with less than 12:1 ratio brake chamber volume.
Production Dates : JAN 08, 2004 - OCT 12, 2018
VIN Range 1 : Begin : NR End : NR ☐ Not sequential

Vehicle 16 : 2004-2019 Sterling L8500
Vehicle Type :
Body Style :
Power Train : NR
Descriptive Information : Certain vehicle configurations with air tank reservoir volume with less than 12:1 ratio brake chamber volume.
Production Dates : JAN 08, 2004 - OCT 12, 2018
VIN Range 1 : Begin : NR End : NR ☐ Not sequential

Vehicle 17 : 2004-2019 Sterling LT8500
Vehicle Type :
Body Style :
Power Train : NR
Descriptive Information : Certain vehicle configurations with air tank reservoir volume with less than 12:1 ratio brake chamber volume.
Production Dates : JAN 08, 2004 - OCT 12, 2018
VIN Range 1 : Begin : NR End : NR ☐ Not sequential

Vehicle 18 : 2004-2019 Sterling L9500
Vehicle Type :
Body Style :
Power Train : NR

Descriptive Information :	Certain vehicle configurations with air tank reservoir volume with less than 12:1 ratio brake chamber volume.
Production Dates :	JAN 08, 2004 - OCT 12, 2018
VIN Range 1 :	Begin : NR End : NR ☐ Not sequential

Vehicle 19 :	2004-2019 Sterling LT9500
Vehicle Type :	
Body Style :	
Power Train :	NR
Descriptive Information :	Certain vehicle configurations with air tank reservoir volume with less than 12:1 ratio brake chamber volume.
Production Dates :	JAN 08, 2004 - OCT 12, 2018
VIN Range 1 :	Begin : NR End : NR ☐ Not sequential

Description of Noncompliance :

Description of the Noncompliance :	The vehicles in question do not comply with FMVSS 121 S5.1.2.1. The regulation requires the combined volume of all service reservoirs and supply reservoirs to be at least 12 times the combined volume of all service brake chambers.
FMVSS 1 :	NR
FMVSS 2 :	NR
Description of the Safety Risk :	The mandated reservoir ratio is intended to ensure air availability during operation regardless of heavy usage, or loss of part of the pneumatic system. An insufficient ratio can affect brake performance if several brake applications are required over a short period. Reduced brake effectiveness could increase the risk of a vehicle crash. DTNA has not received any complaints due to reduced air reservoir volume on these vehicles.
Description of the Cause :	NR
Identification of Any Warning that can Occur :	NR

Supplier Identification :

Component Manufacturer

Name :	NR
Address :	NR
	NR
Country :	NR

Chronology :

In May 2018, DTNA identified a potential non-compliance related to vehicle air tank capacity and began an extensive investigation. May 2018 – August 2018, DTNA evaluated vehicle configurations to determine potentially affected vehicles. Additional review of vehicle specifications and volume calculations revealed a potential issue relating to air chamber and air tank sizing requirements. August 2018 – December 2018, DTNA reviewed potentially affected population to confirm vehicle configuration on air chamber and tank sizing and quantity of parts. In January 2019, DTNA internally evaluated actual volumes related to stroke of chambers to compare with table 5 in FMVSS 121. February 2019, DTNA discussed the issue with NHTSA Office of Defects Investigation and it was recommended that DTNA seek guidance from NHTSA Office of Vehicle Safety Compliance (OVSC). March 2019, DTNA discussed the issue with OVSC and requested clarity on the regulation. April, DTNA received requested information from OVSC. DTNA consulted with external lawyers for legal advice on the interpretation of the rule. May 2019, with an abundance of caution, DTNA decided to initiate a voluntary recall campaign on affected vehicles manufactured within the above dates. . June 2019, DTNA amended the population to include vehicles previously included in 19V-369.

Description of Remedy :

Description of Remedy Program :	Additional air reservoir capacity will be added to subject vehicles. Repairs will be performed by Daimler Trucks North America authorized service facilities. Copies of the reimbursement plan will be submitted as a supplemental report when available.
How Remedy Component Differs from Recalled Component :	NR
Identify How/When Recall Condition was Corrected in Production :	NR

Recall Schedule :

Description of Recall Schedule :	Customer notification will be made by first class mail using Daimler Trucks North America records to determine the customers affected.
Planned Dealer Notification Date :	JUL 12, 2019 - JUL 12, 2019
Planned Owner Notification Date :	JUL 12, 2019 - JUL 12, 2019

* NR - Not Reported