

Part 573 Safety Recall Report

24V-620

Manufacturer Name : Kalmar Solutions, LLC

Submission Date : AUG 23, 2024

NHTSA Recall No. : 24V-620

Manufacturer Recall No. : NR



Manufacturer Information :

Manufacturer Name : Kalmar Solutions, LLC

Address : 415 E. Dundee Street

Ottawa KS 66067

Company phone : 785-229-6341

Population :

Number of potentially involved : 96

Estimated percentage with defect : 100 %

Vehicle Information :

Vehicle 1 : 2016-2017 Kalmar Ottawa T2 6x4

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : OTHER

Power Train : DIESEL

Descriptive Information : Air tank volume does not meet FMVSS on-board required compliance. On board air currently adds up to 5,718 cu.in. FMVSS has a 12:1 ratio of tank air to chamber air. Brake chambers are 89 cu.in. $6 \times 89 \times 12 = 6,408$ cu.in. (minimum requirement). After 3rd party testing and receiving a 'pass', one of the air tanks was relocated. In the process, the air tank size was decreased and the minimum required capacity was overlooked.

-Recall begins on the T2 6x4 platform that started in 2016.

-6x4 trucks built prior to 2016 were on a different platform that was compliant.

-The vehicle application (of a terminal tractor) top speed is limited to 45mph. And in 2017, when the stability control regulation (Aug 1, 2017 for 3-axle truck tractors [FMVSS 571.136.S8.2.1]) went into effect, top speed was limited to 33mph, as we chose not to comply with the stability control requirement.

- To date, there are no known reported safety issues. There are no known field complaints regarding braking.

Production Dates : APR 01, 2016 - JUL 31, 2017

VIN Range 1 : Begin :

NR

End : NR

☐ Not sequential

Description of Noncompliance :

Description of the Noncompliance : Air tank volume does not meet FMVSS 121 on-board required compliance. On board air currently adds up to 5,718 cu.in. FMVSS 121 has a 12:1 ratio of tank air to chamber air. Brake chambers are 89 cu.in. $6 \times 89 \times 12 = 6,408$ cu.in. (minimum requirement).
After 3rd party testing and receiving a 'pass', one of the air tanks was relocated. In the process, the air tank size was decreased and the minimum required capacity was overlooked making it noncompliant.

FMVSS 1 : 121 - Air brake systems

FMVSS 2 : NR

Description of the Safety Risk : The safety risk is that there may not be enough on-board air in a braking event where the brakes were actuated multiple times very quickly.

Description of the Cause : One of the air tanks was relocated. Apparently, in the process, the air tank size was decreased and the minimum required capacity was overlooked making it noncompliant.

Identification of Any Warning that can Occur : The low air buzzer will actuate indicating that the air pressure is low and that the system is charging.

Involved Components :

Component Name 1 : Air Tank

Component Description : Air Tank

Component Part Number : Air Tank

Supplier Identification :**Component Manufacturer**

Name : NR

Address : NR

NR

Country : NR

Chronology :

In January 2016, after 3rd party testing and receiving a 'pass', one of the air tanks was relocated. In the process, the air tank size was decreased and the minimum required capacity was overlooked. And in 2017, when the stability control regulation (Aug 1, 2017 for 3-axle truck tractors [FMVSS 571.136.S8.2.1]) went into

effect, Kalmar decided to limit the maximum speed of the vehicle to 33mph, thus exempting it from federal requirements for ABS and Stability Control. In some recent design changes, air volume was recalculated to determine required capacity. On Aug 1, 2024 it was brought to our regulatory compliance manager to confirm the required volume. It was at that time that we determined that existing trucks were insufficient, not meeting the regulatory requirement. Thus, leading to the decision on August 7, 2024 to issue a non-compliance recall. To date, no warranty claims, field or service reports, and other information (such as the numbers of deaths and/or injuries) have been filed or brought against Kalmar.

Description of Remedy :

Description of Remedy Program :	Kalmar will issue a service kit to replace one of the existing air tanks with a larger air tank that meets the FMVSS 121 requirements for total air capacity. Kalmar will reimburse the customer and/or the dealer for the service time to replace the the vehicle with the larger air tank.
How Remedy Component Differs from Recalled Component :	The remedy will have visibly larger air tanks or an additional air tank in production.
Identify How/When Recall Condition was Corrected in Production :	Production was corrected on Aug 1, 2017 by limiting the speed to 33mph, exempting the vehicle from the requirements of FMVSS 121 and 136.

Recall Schedule :

Description of Recall Schedule :	A dealer and owner notification letter will be drafted by August 30, 2024. Planned dealer and owner notification letters will begin September 16, 2024.
Planned Dealer Notification Date :	SEP 16, 2024 - SEP 30, 2024
Planned Owner Notification Date :	SEP 16, 2024 - SEP 30, 2024

* NR - Not Reported