

Part 573 Safety Recall Report

22V-566

Manufacturer Name : Kalmar Solutions, LLC**Submission Date :** AUG 03, 2022**NHTSA Recall No. :** 22V-566**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 : 110

Estimated percentage with defect : 100 %

Vehicle Information :

Vehicle 1 : 2021-2022 Kalmar Ottawa T2 Ottawa T2

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style :

Power Train : NR

Descriptive Information : Kalmar's supplier, R.H. Sheppard Co., Inc. has filed a NHTSA safety recall, 22E-047, indicating that: "A small number of steering gears were assembled without the required number of recirculating balls. The recall population was determined by identifying the oldest production lot associated with a gear failure, and including all production from that lot to the date in February 2022 when the improvements in the assembly process were instituted."

Kalmar has received a list of 86 suspect units from Sheppard used in production and 24 suspect units used for aftermarket parts support.

This recall, while related to Sheppard's recall 22E-047, is specific to the units that Kalmar has purchased from Sheppard and relates to Kalmar's responsibility to inform our end customers.

This recall affects model year 2021 and 2022 Kalmar Ottawa T2 terminal tractors.

Production Dates : JUN 14, 2021 - JUL 20, 2022

VIN Range 1 : Begin :

NR

End : NR

 Not sequential**Description of Defect :**

Description of the Defect : As noted in Sheppard recall 22E-047, Steering gear was assembled with fewer than the required number of recirculating balls which can lead to a fracture in the steering gear worm-shaft and loss of vehicle steering.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : As noted in Sheppard recall 22E-047, A steering gear with fewer than the required number of recirculating balls may bind when loads are applied. In some cases the balls may align on the same side of the gear's worm-shaft and concentrated loads may cause the gear's internal parts to fracture resulting in loss of vehicle steering. Loss of steering increases the likelihood of a crash.

Description of the Cause : As noted in Sheppard recall 22E-047, An anomaly in the steering gear recirculating ball insertion operation occurred during assembly. Subsequent rework processes and inspections did not detect the missing recirculating balls.

Identification of Any Warning that can Occur : As noted in Sheppard recall 22E-047, Preceding the internal fracture, the steering may be perceived as strained by the driver. No audible or visual warning is available.

Involved Components :

Component Name 1 : Steering Gear - In production

Component Description : Steering gearbox

Component Part Number : In production: Kalmar p/n 53573752; Sheppard Model or p/n M100PQS31

Component Name 2 : Steering Gear - In aftermarket sales

Component Description : Steering gearbox

Component Part Number : In aftermarket sales: Kalmar p/n 90030934; Sheppard Model or p/n M100PQS3

Supplier Identification :

Component Manufacturer

Name : R.H. Sheppard Co., Inc.

Address : 101 Philadelphia Street

P.O. Box 877 Hanover Pennsylvania 17331-0877

Country : United States

Chronology :

The primary chronology of events comes from the Sheppard recall 22E-047. Kalmar was then informed from Sheppard and from NHTSA several days following the initial Sheppard filing on May 28, 2022. Kalmar received on July 20, 2022 the applicable list of suspect serial numbers applicable to Kalmar models and purchases.

Description of Remedy :

Description of Remedy Program : Kalmar will inform and support customers with Sheppard's remedy from Sheppard recall 22E-047: Purchasers will identify the unique serial number imprinted on the recalled equipment. A web-based tool is available after August 1, 2022 to vehicle manufactures and their service networks to classify the serial number. Serial numbers classified as "suspect" must be replaced and serial numbers classified as "not-suspect" may remain in service.
Kalmar will inform and support customers based on the list of serialized suspect steering gears that Kalmar has received from Sheppard.

How Remedy Component Differs from Recalled Component : As communicated in the Sheppard recall 22E-047, The remedy component was assembled after the recall condition was corrected in production when additional controls were put in place. The remedy component has been verified to have the correct number of recirculating balls. Each remedy component is identifiable by an imprinted unique serial number.

Identify How/When Recall Condition was Corrected in Production : As communicated in the Sheppard recall 22E-047, On Feb 10, 2022 the recirculating ball insertion process control was enhanced. Additional process controls and inspectors were added to the process to verify that the correct number of recirculating balls in each steering gear.

Recall Schedule :

Description of Recall Schedule : NR
Planned Dealer Notification Date : AUG 17, 2022 - AUG 17, 2022
Planned Owner Notification Date : AUG 17, 2022 - AUG 17, 2022

* NR - Not Reported