

Part 573 Safety Recall Report

22E-047

Manufacturer Name : R.H. SHEPPARD CO., INC.

Submission Date : MAY 28, 2022

NHTSA Recall No. : 22E-047

Manufacturer Recall No. : NR



Manufacturer Information :

Manufacturer Name : R.H. SHEPPARD CO., INC.

Address : 101 Philadelphia Street

P.O. Box 877 Hanover PA 17331-0877

Company phone : 717-637-3751

Population :

Number of potentially involved : 105,271

Estimated percentage with defect : 1 %

Equipment Information :

Brand / Trade 1 : Sheppard

Model : HD94E

Part No. : various

Size : NR

Function : Steering

Descriptive Information : 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.

Production Dates : JUN 01, 2021 - FEB 01, 2022

Brand / Trade 2 : Sheppard

Model : M100P

Part No. : various

Size : NR

Function : Steering

Descriptive Information : 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.

Production Dates : JUN 01, 2021 - FEB 01, 2022

Brand / Trade 3 : Sheppard

Model : M110P

Part No. : various

Size : NR

Function : Steering

Descriptive Information : 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.

Production Dates : JUN 01, 2021 - FEB 10, 2022

Brand / Trade 4 : Sheppard

Model : HD94P

Part No. : various

Size : NR

Function : Steering

Descriptive Information : 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.

Production Dates : JUN 01, 2021 - FEB 10, 2022

Brand / Trade 5 : Sheppard

Model : XD120P

Part No. : various

Size : NR

Function : Steering

Descriptive Information : 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.

Production Dates : JUN 01, 2021 - FEB 10, 2022

Brand / Trade 6 : Sheppard

Model : MD83P

Part No. : various

Size : NR

Function : Steering

Descriptive Information : 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.

Production Dates : JUN 01, 2021 - FEB 10, 2022

Brand / Trade 7 : Sheppard

Model : SD110P

Part No. : various

Size : NR

Function : Steering

Descriptive Information : 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.

Production Dates : JUN 01, 2021 - FEB 10, 2022

Brand / Trade 8 : Sheppard

Model : M83P

Part No. : various

Size : NR

Function : Steering

Descriptive Information : 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.

Production Dates : JUN 01, 2021 - FEB 10, 2022

Brand / Trade 9 : Sheppard

Model : M90P

Part No. : various

Size : NR

Function : Steering

Descriptive Information : 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.

Production Dates : JUN 01, 2021 - FEB 01, 2022

Brand / Trade 10 : Sheppard

Model : M80P

Part No. : various

Size : NR

Function : Steering

Descriptive Information : 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.

Production Dates : JUN 01, 2021 - FEB 10, 2022

Description of Defect :

Description of the Defect : 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 : 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 : 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 Preceding the internal fracture, the steering may be perceived as strained by that can Occur : the driver. No audible or visual warning is available.

Involved Components :

Component Name : NR

Component Description : NR

Component Part Number : NR

Supplier Identification :

Component Manufacturer

Name : NR

Address : NR

NR

Country : NR

Chronology :

2/8/22-Sheppard warranty lab receives a gear built 8/20/2021 with failed worm-shaft. 2/9/22 - warranty lab inspection/disassembly indicates fracture of the worm-shaft and less than the required number of recirculating balls 2/10/22-plant stops production. Additional inspections and process verifications put in place. Clean point is established. Material on hand is inspected and confirmed defect free. Production resumes. (2/10/22 - 5/13/22): review of all warranty from 2015-present indicated no similar failure ever received. engineering tests are performed to understand and to reproduce failure mode. 3/10/2022 - Sheppard contacted vehicle driver for description of event and confirmed no accident or injury, low speed and while backing up. 4/12/22 - Sheppard receives a second gear at incoming shipping facility 5/5/22- Sheppard warranty lab receives/inspects/disassembles the second gear built on 6/26/21 with failed worm-shaft and less than the required number of recirculating balls 5/6/22- The Product Integrity Committee meets for update on the product investigation. 5/13/22 - The Product Integrity Committee meets and recommends submission of a defect report 573

Description of Remedy :

Description of Remedy Program : A remedy program is under development. The 573 will be amended once an inspection and remedy plan has been developed.

How Remedy Component Differs from Recalled Component : NR

Identify How/When Recall Condition was Corrected in Production : 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 : JUL 15, 2022 - JUL 15, 2022

Planned Owner Notification Date : JUL 15, 2022 - JUL 15, 2022

Purchaser Information :

The following manufacturers purchased this defective/noncompliant equipment for possible use or installation in new motor vehicles or new items of motor vehicle equipment:

Name : Daimler Trucks North America

Address : 4555 N. Channel Ave.
Portland OR 97217

Country : US

Company Phone : 503-745-5508

Name : HME, Inc.

Address : 1950 Byron Center Ave.
Wyoming MI 49519

Country : US

Company Phone : 616.534.1463

Name : Kalmar Solutions

Address : 415 E. Dundee
Ottawa KS 66067

Country : US

Company Phone : (785) 248-0776

Name : Kodiak America

Address : PO Box 370
Paul ID 43347

Country : US

Company Phone : NR

Name : Link-Belt Construction Equip.
Address : 2651 Palumbo Dr
Lexington KY 40509
Country : US
Company Phone : (859) 264-6439

Name : Orange EV LLC
Address : 500 NW Business Park Lane
Riverside MO 64150
Country : US
Company Phone : NR

Name : Pierce Manufacturing Inc.
Address : 2600 American Dr.
Appleton WI 54913-2017
Country : US
Company Phone : 920.225.0671

Name : TICO Mfg/Terminal Services
Address : PO Box 1434
Savannah GA 31402
Country : US
Company Phone : 843-536-8139

Name : Crane Carrier Co
Address : 1951 Reiser Avenue S.E.
New Philadelphia OH 44663
Country : US
Company Phone : NR

Name : SUPACAT LTD.
Address : THE AIRFIELD DUNKESWELL
England O0
Country : GB
Company Phone : 1404 892082

Name : Kenworth Truck Co.
Address : 10630 NE 38th Place
Kirkland WA
Country : US
Company Phone : 425-828-5201

Name : Autocar LLC
Address : 551 South Washington St.
Hagerstown IN 47346
Country : US
Company Phone : NR

Name : Capacity of Texas
Address : 401 Capacity Drive
Longview TX 75604
Country : US
Company Phone : NR

Name : JCB Manufacturing Inc.
Address : 2000 Bamford Blvd.
Pooler GA 31322
Country : US
Company Phone : NR

Name : Peterbilt Motors Inc
Address : 3200 Airport Road
Denton TX 31322
Country : US
Company Phone : 940-220-2760

Name : AM General LLC
Address : 105 N. Niles Avenue
South Bend IN 46617
Country : US
Company Phone : NR

Name : Kovatch Mobile Equipment
Address : One Industrial Complex
Nesquehoning PA 18240
Country : US
Company Phone : (570) 669-5581

Name : New Flyer of America
Address : 711 Kernaghan Ave
Winnipeg Manitoba 00 R2C 2T4
Country : CA
Company Phone : NR

Name : Oshkosh Truck Corp.
Address : 2307 Oregon St.
Oshkosh WI 54903
Country : US
Company Phone : NR

Name : Eldorado National Inc
Address : 9670 Galena St.
Riverside CA
Country : US
Company Phone : NR

Name : Emergency One, Inc
Address : 1601 SW 37th Ave
Ocala FL 34474
Country : US
Company Phone : NR

Name : Ferrara Fire Apparatus, Inc.
Address : 27855 James Chapel Road North
Holden LA 70744
Country : US
Company Phone : NR

Name : Global Environmental Products
Address : 5405 Industrial Parkway
San Bernardino CA 92407
Country : US
Company Phone : NR

Name : Grove (Manitowoc) Worldwide
Address : Box 21
Shady Grove PA 17256-0021
Country : US
Company Phone : 717-593-5116

Name : Meritor, Inc
Address : 2135 West Maple Rd
Troy MI 48084
Country : US
Company Phone : 920-424-5307

Name : Mil-Stak, Inc.

Address : 2201 Hwy. 30 w
Fruitland ID 83619

Country : US

Company Phone : 208-452-6045

Name : Tenco,Inc

Address : 1318 Principale
St-Valerien de Milton 00 JOH 2B0

Country : CA

Company Phone : 450-388-1328

Name : Navistar Inc

Address : 2701 Navistar Dr
Lisle IL 60532

Country : US

Company Phone : 331-332-1590

Name : Volvo Trucks North America, Inc

Address : 7900 National Service Road
Greensboro NC 27409-9416

Country : US

Company Phone : 301-573-5972

* NR - Not Reported