### **Amended Defect Information Report**

(Section 573.6)

FL-938

**Date of Submission:** Oct 24, 2022 (June 28, 2022)

Manufacturer: Daimler Truck North America LLC

P.O. BOX 3849

Portland, Oregon 97208

Type of Report: X Safety Defect Non-Compliance

#### **Vehicle Information**

Model Yr. Start: 2022 Model Yr. End: 2023

Make: Freightliner, FCCC

Model: Cascadia, MT 45/MT45G

**Production Dates: Begin:** 06/09/2021 **End:** 05/23/22

**Type:** Truck/Tractor

**Descriptive Information:** DTNA's supplier Bendix, acting through subsidiary R.H. Sheppard Co., Inc. states per NHTSA filing 22E-047, "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."

Number potentially involved: 5768 Estimated percentage of involve with defect: 10%

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### **Defect Description**

#### **Describe the defect:**

DTNA's supplier Bendix, acting through subsidiary R.H. Sheppard Co., Inc. states per NHTSA filing 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."

If a noncompliance, provide the applicable FMVSS: N/A

#### Describe the safety risk:

DTNA's supplier Bendix, acting through subsidiary R.H. Sheppard Co., Inc. states per NHTSA filing 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."

**Identify any warning, which can precede or occur:** DTNA's supplier Bendix, acting through subsidiary R.H. Sheppard Co., Inc. states per NHTSA filing 22E-047, "Preceding the internal fracture, the steering may be perceived as strained by the driver. No audible or visual warning is available."

**If applicable, identify the manufacture of the defective or noncompliant component:** Steering System

## **Involved Components**

**Component Name:** Steering Gear

Component Description: DTNA's supplier Bendix, acting through subsidiary R.H. Sheppard Co.,

Inc. states per NHTSA filing 22E-047, "NR"

Component Part Number: DTNA's supplier Bendix, acting through subsidiary R.H. Sheppard Co.,

Inc. states per NHTSA filing 22E-047, "NR"

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### **Supplier Identification:**

Bendix Corp Heavy Vehicle Systems Group subsidiary R.H Sheppard Co.,Inc. 100 Jessica In
Del Rio, Tx 78840-8527
David Scuito
Account Manager
david.scuito@bendix.com
503-504-3248

**Component Manufacturer:** Bendix Corp Heavy Vehicle Systems Group subsidiary R.H. Sheppard Co., Inc.

## **Chronology of Noncompliance Determination**

Provide the chronology of events leading up to the defect decision or test data for the noncompliance decision.

DTNA's supplier Bendix, acting through subsidiary R.H. Sheppard Co., Inc. states per NHTSA filing 22E-047:

"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."

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Bendix notified DTNA on May 25, 2022 of a possible defect. DTNA investigated the matter and promptly declared a recall.

Meanwhile, thru early June of 2022, Bendix continued to refine the serial numbers of the suspect parts and around mid-June, provided DTNA an updated list of suspect component serial numbers. DTNA immediately began the process of matching vehicle serial numbers to the suspect steering gear serial numbers. After an exhaustive review of available data, DTNA was able to refine and match the list from Bendix to the population as of this filing. There are no known deaths or injuries related to issue to the best of DTNA's knowledge. Based on information provided by Bendix, in early July 2022 DTNA updated the estimated of the number of units involved with the defect. Chronology has been updated to reflect the most recent remedy program as of October 24, 2022.

### **Identify the Remedy**

Describe the defect/noncompliance remedy program, including the manufacture's plan for reimbursement.

DTNA's supplier Bendix, acting through subsidiary R.H. Sheppard Co., Inc. states per NHTSA filing 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 will classified as either suspect and must be replaced or as not-suspect and may remain in service."

## **Identify the Recall Schedule**

Describe the recall schedule for notifications:

Customer notification will be made by first class mail using Daimler Trucks North America records to determine the customers affected.

Planned Dealer Notification Begin Date:08/06/2022Planned Dealer Notification End Date:08/06/2022Planned Owner Notification Begin Date:08/06/2022Planned Owner Notification End Date:08/06/2022

Manufacture's identification code for this recall (if applicable): FL-938

DTNA Representative;

Sam Geser

Sam Geser

Product Defect Investigation Engineering Manager