

Part 573 Safety Recall Report

23V-543

Manufacturer Name : Hyundai Translead**Submission Date :** MAR 07, 2024**NHTSA Recall No. :** 23V-543**Manufacturer Recall No. :** Dexter 23V543**Manufacturer Information :**

Manufacturer Name : Hyundai Translead

Address : 8880 Rio San Diego Drive, #500
San Diego CA 92108-164

Company phone : 819-574-1500

Population :

Number of potentially involved : 2

Estimated percentage with defect : 100 %

Vehicle Information :

Vehicle 1 : 2022-2022 V/T 53SW Q29485 VI2530154-AFJ

Vehicle Type : TRAILERS

Body Style :

Power Train : NR

Descriptive Information : Under certain heavy loading conditions the steer arm attached to the knuckle can potentially shear. If this condition occurs, the upper section of the sheared steer arm will remain attached to the knuckle by the mounting bolts and lower section of the steer arm will remain attached to the tie-rod assembly but potentially drag along the ground. At no time will the vehicle become uncontrollable and the operator will be able to safely operate until they can secure the axle under the vehicle.- A total of 2 defective components were installed in a total of (2) Hyundai Translead trailers.

Production Dates : MAY 20, 2021 - MAY 20, 2021

VIN Range 1 : Begin : 3H3V534KXNJ087001 End : 3H3V534K1NJ087002 Not sequential**Description of Defect :**

Description of the Defect : The affected axles are models of the Smart-Steer 2.0 self-steering axle with the 702887 bolt-on steer arm built from October 13, 2017 to October 30, 2022. The material strength was not sufficient to withstand the high lateral loads.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : Under certain heavy loading conditions the steer arm attached to the knuckle can potentially shear. If this condition occurs, the upper section of the sheared steer arm will remain attached to the knuckle by the mounting bolts and lower section of the steer arm will remain attached to the tie-rod assembly but there is an increased risk of a crash or injury due to the part potentially dragging on the ground. At no time will the vehicle become uncontrollable and the operator will be able to safely operate until they can

secure the axle under the vehicle.

Description of the Cause : NR

Identification of Any Warning that can Occur : Independent castering of steer axle wheels and noise from dragging parts

Involved Components :

Component Name 1 : 702887 Bolt-on steer arm

Component Description : Smart-Steer 2.0 self-steering axle with the 702887 bolt-on steer arm

Component Part Number : 702887

Supplier Identification :

Component Manufacturer

Name : Dexter Axle Company

Address : 2900 Industrial Parkway East

PO Box 250 Elkhart Indiana 46516

Country : United States

Chronology :

09/2022. Dexter Trailer Products of Canada Corporation ("Dexter Canada") determines that certain self-steer axles installed or distributed by Hyundai could contain a defect which could be a safety risk under certain conditions or applications. A recall (NHTSA ID 22E-080) was initiated 09/21/2022.

11/16/2022. NHTSA emails Recall 22E-080 to Hyundai Translead who starts an internal investigation. Hyundai was unable to find equipment using faulty component.

07/27/2023. Procurement receives communication in regards to this recall from Dexter. They explain brief summary of recall, this being they reviewed recent claims with a key customer, a service bulletin was requested to address the customer issues. Upon further investigations and reviews, Dexter Canada conducted an analysis of the failure mode and determined the material was not robust enough to withstand the higher loading events which may occur in this configuration. Re-design activities were initiated to define a steer arm design that will withstand the unique, higher load events based on collected road load data.

07/26/2023 NHTSA requests update, Hyundai re-opens investigation.

08/02/2023 Hyundai finalizes internal investigation and provides NHTSA with update, determines there are only (2) units affected, NHTSA asks HT to submit Recall information through the Recall website. Recall is submitted same day and NHTSA generates ID # 23V543.

Description of Remedy :

Description of Remedy Program : Service work will include the following steps:

1. Remove the existing steer arms and mounting hardware.
2. Clean mounting surface and surrounding surfaces to prepare for mounting of the new bolt-on steer arm and additional welds.
3. Grind a 3/16" chamfer along the mounting face edge.
4. Mount new design steer arms (Part # 703293-LH/RH) with supplied hardware and torque to 400 ft-lbs.
5. Add welds as shown on page three of this bulletin.

How Remedy Component Differs from Recalled Component : New design has a higher strength material and welded to the steering knuckle

Identify How/When Recall Condition was Corrected in Production : Implemented a new design with higher strength material as well as an additional weld connecting the arm to the knuckle into production at Dexter Canada on 30-October-2022.

Recall Schedule :

Description of Recall Schedule : Letter will be issued to customer no later than 15-Aug-2023

Planned Dealer Notification Date : AUG 02, 2023 - AUG 15, 2023

Planned Owner Notification Date : AUG 02, 2023 - AUG 15, 2023

* NR - Not Reported