

Part 573 Safety Recall Report

22V-592

Manufacturer Name : Orange EV
Submission Date : AUG 08, 2022
NHTSA Recall No. : 22V-592
Manufacturer Recall No. : 22E047

**Manufacturer Information :**

Manufacturer Name : Orange EV
Address : 5710 NW 41st St., Ste. 300
 Riverside MO 64150
Company phone : 2141072

Population :

Number of potentially involved : 3
Estimated percentage with defect : 1 %

Vehicle Information :

Vehicle 1 : 2021-2022 Orange EV T-series Pure Electric Terminal Truvck and e-Triever
Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES
Body Style : UNKNOWN
Power Train : HYBRID ELECTRIC

Descriptive Information : Sheppard informed OEV that OEV had purchased six faulty Steering Gears, During this period OEV manufactured 220 trucks (we have been able to examine 38 of these trucks already). Currently we have located 3 of the six suspect steering gears, leaving the remaining three in use within those 182 trucks

Production Dates : JUN 30, 2021 - JUN 01, 2022

VIN Range 1 : Begin : 11VG815E4EA000026 **End :** 1Z9TA8EAXNR530050 Not sequential

Description of Defect :

Description of the Defect : Per Sheppard's July 15, 2022, recall bulletin, Sheppard had produced several steering gears that did not have the correct number of recirculating balls. Per Sheppard's communications with us, they have determined that there were six units shipped to OEV that they suspected might have this issue.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : The issue could result in the steering mechanism binding and in other instances the recirculating balls congregating on one side of the worm shaft resulting in a fracture which would result in complete loss of steering.

Description of the Cause : Improper number of circulating bearings within the steering gear

Identification of Any Warning that can Occur : none

Involved Components :

Component Name 1 : RH Sheppard Steering Gear

Component Description : steering gear

Component Part Number : HD94E, HD94P, M80P, M83P, M90P, M100P, M110P, MD83P, SD110P, mand
XD120P

Supplier Identification :

Component Manufacturer

Name : RH SheppardCo., Inc.

Address : NR

NR

Country : NR

Chronology :

7/15/22 Orange EV received notice from Sheppard of the defect

7/15/22 – 7/20/22 Orange EV had conversations with Sheppard on the extent of the problem and the required remedial action.

7/21/22 Orange EV and Sheppard had a call and finalized the number of suspect units and their corresponding serial numbers. Orange EV was also informed of an application that Orange EV could utilize to quickly determine if a unit is a suspect unit or not.

7/28/22 Orange EV completed review of all inventory and vehicles on site and discovered two suspect units still in Orange EV's possession.

8/1/22 A 3rd steering unit found at customer's site.

Description of Remedy :

Description of Remedy Program : Search through deployed trucks, until we discover the 3 remaining suspect steering gears, remove steering gear and replace with new steering gear.

How Remedy Component Differs from Recalled Component : correct number of circulating bearings

Identify How/When Recall Condition was Corrected in Production : Sheppard has corrected the issue through their production process

Recall Schedule :

Description of Recall Schedule : Notify customers, use our service techs to check all trucks until we find the suspect steering gears
Planned Dealer Notification Date : NR - NR
Planned Owner Notification Date : AUG 17, 2022 - SEP 10, 2022

* NR - Not Reported