

Part 573 Safety Recall Report

22V-576

Manufacturer Name : Charles Machine Works, Inc.

Submission Date : AUG 15, 2022

NHTSA Recall No. : 22V-576

Manufacturer Recall No. : NR



Manufacturer Information :

Manufacturer Name : Charles Machine Works, Inc.

Address : 1959 Fir Street

Box 66 Perry OK 73077

Company phone : 580-572-2223

Population :

Number of potentially involved : 478

Estimated percentage with defect : 100 %

Vehicle Information :

Vehicle 1 : 2020-2022 Ditch Witch VT24

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : Tire change occurred on September 1, 2020. Those products manufactured on or after that date until the change was discovered on July 12, 2022 are the subject range of potentially affected products.

Production Dates : SEP 01, 2020 - JUL 12, 2022

VIN Range 1 : Begin : 1DST722M4M1701401 **End :** 1DST722M5N1701568 Not sequential

Description of Noncompliance :

Description of the Noncompliance : 49 FR 571.120 Sect. S5.1.2 requires that the sum of the maximum load ratings of the tires fitted to an axle shall be not less than the gross axle weight rating (GAWR) of the axle system as specified on the trailer's certification label. As described below, the tire rating is less than axle weight rating that is indicate on the trailer's VIN plate (ie the trailer's certification label). There have been 0 reported incidents in the field and 0 reported injuries. The axle rating on the VT24 trailer VIN plate is 12,000 lbs. per axle. The specified tire rating on the engineering drawings for the tire/wheel assembly 205-0017 is 6,000 lbs. Engineering recently discovered that on or around September 1, 2020, the supplier changed tire brands and we started receiving tires rated at 5,675 lbs. The VT24 is a trailer for Ditch Witch vacuum excavators with 800-gallon spoils tanks. The VT24 trailer is designed and intended to carry only a Ditch Witch vacuum excavator. It is not designed to be used for any other load. The gross vehicle weight rating (gvwr) for the VT24 trailer is 24,000 lbs. Trailer gross vehicle weight is the sum of the axle weights and the tongue weight. Axle weights and tongue weights vary depending on the vacuum excavator configuration and the water and spoils load. When the trailer is loaded to the maximum gvwr of 24,000 lbs., the maximum axle weight possible is 22,200 lbs., or 11,100 lbs. per axle. (24,000 lbs. gvwr - 1,800 lbs. min. tongue weight = 22,200 lbs. on 2 axles). The tongue weight is 1,800 lbs. or greater with all configurations and options available. The 5,675 lb. rated tires allow for an axle weight up to 22,700 lbs., or 11,350 lbs. per axle, which is greater than the maximum achievable axle weight of 22,200 lbs., or 11,100 lbs. per axle. (5,675 lbs./tire x 4 = 22,700 lbs.) The 5,675 lb. rated tires on the VT24 trailer cannot be overloaded without exceeding the trailer gvwr of 24,000 lbs

FMVSS 1 : 120 - Wheels and rims- other than passenger cars

FMVSS 2 : NR

Description of the Safety Risk : None, as the 5,675 lb. rated tires on the VT24 trailer cannot be overloaded without exceeding the trailer gvwr of 24,000 lbs

Description of the Cause : NR

Identification of Any Warning that can Occur : NR

Involved Components :

Component Name 1 : NR

Component Description : NR

Component Part Number : NR

Supplier Identification :**Component Manufacturer**

Name : NR

Address : NR

NR

Country : NR

Chronology :

Charles Machine Works plans to submit a petition for Inconsequential Noncompliance for this matter.

Description of Remedy :

Description of Remedy Program : NR

How Remedy Component Differs NR
from Recalled Component :Identify How/When Recall Condition NR
was Corrected in Production :**Recall Schedule :**

Description of Recall Schedule : NR

Planned Dealer Notification Date : NR - NR

Planned Owner Notification Date : NR - NR

* NR - Not Reported