

Part 573 Safety Recall Report

22V-757

Manufacturer Name : Fontaine Modification**Submission Date :** OCT 10, 2022**NHTSA Recall No. :** 22V-757**Manufacturer Recall No. :** NR**Manufacturer Information :**

Manufacturer Name : Fontaine Modification

Address : 9827 Mt. Holly Road

Charlotte NC 28214

Company phone : 7043911355

Population :

Number of potentially involved : 56

Estimated percentage with defect : 98 %

Vehicle Information :

Vehicle 1 : 2020-2023 Peterbilt 220

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : 2-DOOR

Power Train : DIESEL

Descriptive Information : Fontaine Modification® has determined that a defect that relates to the installation of the Variable Power Divider (VPD) exists in certain Elgin® Crosswind 1® and Elgin Whirlwind 1® sweepers manufactured from December 2018 through June 2022 with Peterbilt chassis. The chassis engine air compressor stainless steel braided supply line may rub through the oil suction line running from the VPD sump to the hydrostatic pump. If the suction line fails, cavitation to the hydrostatic pump will occur and cause severe damage to the hydrostatic system. This could cause the vehicle to move at a limited speed. All Elgin® Crosswind 1® and Elgin® Whirlwind 1® sweepers built between June 2019 and May 2022 will need to be repaired to resolve this issue.

Production Dates : OCT 04, 2018 - MAR 18, 2022

VIN Range 1 : Begin : 3BPPHM7X0MF594047 End : 3BPPHM7XXLF593227 Not sequential**Description of Defect :**

Description of the Defect : The chassis OEM engine air compressor stainless steel braided supply line may rub through the oil suction tube running from the VPD sump to the hydrostatic pump.

FMVSS 1 : 121 - Air brake systems

FMVSS 2 : NR

Description of the Safety Risk : If the oil suction tube running from the VPD sump to the hydrostatic pump fails, cavitation to the hydrostatic pump will occur and cause severe damage to the hydrostatic system. This could cause the vehicle to move at a limited speed.

Description of the Cause : During the installation of the Variable Power Divider (VPD) the oil suction tube running from the VPD sump to the hydrostatic pump tube may come in contact with the chassis engine air compressor stainless steel braided supply line. The stainless steel braided supply line may rub a hole in the oil suction tube and cause the vehicle to move at a limited speed.

Identification of Any Warning that can Occur : A small hole in the oil suction tube running from the VPD sump to the hydrostatic pump may not cause a loss of vehicle performance. A small hole will cause aeration of the oil and cavitation within the pump may cause significant damage to the charge pump. The operator may be able to recognize an unusual audible noise. A large hole will cause performance issues and severe damage to the hydrostatic system.

Involved Components :

Component Name 1 : Stainless Steel Braided Air Line

Component Description : Air Compressor Discharge Air Line

Component Part Number : G50-6000-032

Component Name 2 : Suction Tube

Component Description : VPD Hydraulic Suction Tube

Component Part Number : 1250001058

Supplier Identification :

Component Manufacturer

Name : NR

Address : NR

NR

Country : NR

Chronology :

Fontaine received notification from Marmon Herrington of a unit that had a defective pump and motor. Fontaine installed the Variable Power Divider (VPD) on this unit. During the investigation of the root cause of the failure, it was found that the OEM stainless steel braided air compressor supply line was laying on top of the VPD hydraulic oil suction tube. This unit was in service for over 3 years with the stainless steel braided air

compressor supply line in contact with the VPD hydraulic oil suction tube and wore a small hole in the suction tube. This caused air to enter the sealed hydraulic system causing damage to the pump and motor of the VPD.

Description of Remedy :

Description of Remedy Program : Variable Power Divider (VPD) was installed on Peterbilt 220 chassis and there was not sufficient clearance between the OEM stainless steel braided air compressor supply line and the VPD oil suction tube. Over time, the stainless steel braided air compressor supply line has the potential to wear a hole in the VPD oil suction tube and reduce the ground speed of the vehicle, and/or even possibly damage the stainless steel braided air compressor supply line.

How Remedy Component Differs from Recalled Component : Fontaine has created a Field Service Bulletin (FNT-103014025) showing the potential of the OEM stainless steel braided air compressor supply line coming in contact with the VPD hydraulic oil suction tube and instructions for the proper relocation of the airline to prevent contact with the oil suction tube. During the relocation of the airline, we require the repair facility to inspect the airline and oil suction tube for possible damage. When all repairs are completed the repair facility will send an invoice for the material and labor for reimbursement as well as a picture of the repair. Field Service Bulletin includes the Standard Repair Times for each repair if needed.

Identify How/When Recall Condition was Corrected in Production : Upon being reworked, the OEM stainless steel braided air compressor supply line is rerouted away from the VPD oil suction tube and secured to the chassis frame with a P-clip, thereby eliminating the risk of either component coming in contact with each other.

Recall Schedule :

Description of Recall Schedule : Fontaine does not have "Dealers", however, we will be sending a letter to all of the Elgin Sweeper Company's dealers with a copy of our Field Service Bulletin showing how to properly inspect and relocate the OEM stainless steel braided air compressor supply line and VPD oil suction tube for damage. The dealer Notification letters will be mailed/emailed by 10/17/2022. We will also send Owner notification letters to owners/end-users using Elgin Sweeper Company's warranty registration information to obtain the addresses of the owners/end-users. The Owner Notification letters will be sent by 11/04/2022.

Planned Dealer Notification Date : NR - NR

Planned Owner Notification Date : OCT 17, 2022 - NOV 04, 2022

* NR - Not Reported