

Part 573 Safety Recall Report

23E-068

Manufacturer Name : Hyundam Industrial

Submission Date : SEP 18, 2023

NHTSA Recall No. : 23E-068

Manufacturer Recall No. : NR



Manufacturer Information :

Manufacturer Name : Hyundam Industrial

Address : 29, Yeongni-gil Yeongin-myeon

Asan-si 00 31424

Company phone : 41 539 7345

Population :

Number of potentially involved : 183,323

Estimated percentage with defect : NR

Equipment Information :

Brand / Trade 1 : Hyundam Industrial

Model : Fuel Pump

Part No. : See Part Numbers

Size : N/A

Function : Fuel Supply

Descriptive Information : The low-Pressure fuel pump is located in the fuel tank and supplies fuel pressure to the fuel injection system.

Production Dates : JAN 08, 2021 - MAY 12, 2021

Description of Defect :

Description of the Defect : Certain fuel pump impellers produced from certain lots between January 2021 and May 2021 might exhibit deformation while vehicles are in operation.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : If there is deformation of the fuel pump impeller, it may lead to a failure of the fuel pump, in which case the vehicle could lose propulsion, which may increase the risk of crash or injury.

Description of the Cause : The fuel pump impellers produced from certain lots between January 2021 and May 2021 were made of certain raw materials which were at lower levels than the raw materials used in other lots, and when such characteristics were combined with environmentally-linked conditions such as high ambient temperature, deformation of the fuel pump impeller may occur.

Identification of Any Warning that can Occur : Before the fuel pump is switched off, the driver may be made aware of a malfunction by a warning message in the instrument cluster and might notice the engine running rough.

Involved Components :

Component Name : Fuel Delivery Module

Component Description : NR

Component Part Number : A9074705500

Component Name : Fuel Delivery Module

Component Description : NR

Component Part Number : A4474704001

Component Name : Fuel Delivery Module

Component Description : NR

Component Part Number : A1674700394

Component Name : Fuel Delivery Module

Component Description : NR

Component Part Number : A1674704500

Component Name : Fuel Delivery Module

Component Description : NR

Component Part Number : A1674706900

Component Name : Fuel Delivery Module

Component Description : NR

Component Part Number : A2054702702

Component Name : Fuel Delivery Module

Component Description : NR

Component Part Number : A2054704900

Component Name : Fuel Delivery Module

Component Description : NR

Component Part Number : A2054708501

Component Name : Fuel Delivery Module

Component Description : NR

Component Part Number : A2064700202

Component Name : Fuel Delivery Module

Component Description : NR

Component Part Number : A2064704401

Component Name : Fuel Delivery Module

Component Description : NR

Component Part Number : A2064704501

Component Name : Fuel Delivery Module

Component Description : NR

Component Part Number : A2234703301

Component Name : Fuel Delivery Module

Component Description : NR

Component Part Number : A2234709601

Component Name : Fuel Delivery Module

Component Description : NR

Component Part Number : A2324700000

Component Name : Fuel Delivery Module

Component Description : NR

Component Part Number : A4634705900

Component Name : Fuel Pump Module

Component Description : NR

Component Part Number : 31120T1000

Component Name : Fuel Pump Module

Component Description : NR

Component Part Number : 31120T6000

Component Name : Fuel Pump Module

Component Description : NR

Component Part Number : 31120AR000

Supplier Identification :

Component Manufacturer

Name : Hyundam Industrial

Address : 29, Yeongni-gil Yeongin-myeon

Asan-si Foreign States

Country : Korea, Republic of

Chronology :

According to Mercedes-Benz, in the beginning of June 2022, Mercedes-Benz began investigating field reports alleging inconsistent power delivery. Mercedes-Benz retrieved fuel pumps from the field and began evaluating them. According to Hyundai Motor America, a warranty claim dated September 2, 2022 indicated a stall/hesitation condition.

In late 2022 and early 2023, Mercedes-Benz and Hyundam Industrial Co., Ltd. evaluated the material and production processes at Hyundam Industrial Co., Ltd. and Hyundam Industrial Co., Ltd.'s sub-suppliers.

From January 2023 to May 2023, Hyundai Motor America evaluated five fuel pumps recovered from vehicles which experienced inconsistent power delivery.

Mercedes-Benz and Hyundam Industrial Co., Ltd. also separately conducted several tests to evaluate the fuel pump impeller. These tests evaluated the raw materials and injection molding process for the fuel pump impeller.

Hyundam Industrial Co., Ltd.'s investigation revealed that the fuel pump impellers produced from certain lots between January 2021 and May 2021 were made of certain raw materials which were at lower levels than the raw materials used in other lots, and when such characteristics were combined with environmentally-linked conditions such as high ambient temperature, deformation of the fuel pump impeller may occur.

Hyundam Industrial Co., Ltd. changed its raw material supplier and instituted safeguards and quality controls for the injection molding supplier to accommodate Mercedes-Benz's requests.

Through May of 2023, Hyundam Industrial Co., Ltd. and Mercedes-Benz conducted further testing and analyses to identify potential influencing factors and determine potential consequences of material and process anomalies at different steps of the production process.

Through August of 2023, Hyundam Industrial Co., Ltd. and Hyundai Motors conducted analyses of raw materials and vehicle tests to identify and confirm the cause of the impeller swelling.

Description of Remedy :

Description of Remedy Program : Authorized Mercedes-Benz and Hyundai dealerships will replace the fuel delivery module on the affected vehicles.

How Remedy Component Differs from Recalled Component : Hyundam Industrial Co., Ltd.'s investigation confirmed that fuel pump impellers produced before January of 2021 and after May of 2021 were manufactured with raw materials with higher material property values than the fuel pump impellers subject to recall. Furthermore, the remedy components were produced using a different raw material supplier.

Identify How/When Recall Condition was Corrected in Production : Hyundam Industrial Co., Ltd.'s investigation confirmed that fuel pump impellers produced before January of 2021 and after May of 2021 were manufactured with raw materials with higher material property values than the fuel pump impellers subject to recall. In conjunction with its investigation into the fuel pump impellers, Hyundam Industrial Co. Ltd. began using a different raw material supplier.

Recall Schedule :

Description of Recall Schedule : This will be subject to the recall schedule of the automobile manufacturers.

Planned Dealer Notification Date : NR - NR

Planned Owner Notification Date : NR - NR

Purchaser Information :

The following manufacturers purchased this defective/noncompliant equipment for possible use or installation in new motor vehicles or new items of motor vehicle equipment:

Name : Daimler Vans USA, LLC

Address : One Mercedes-Benz Drive
Sandy Springs GA 30328

Country : US

Company Phone : NR

Name : Mercedes-Benz USA, LLC

Address : 13470 International Parkway
Jacksonville FL 32218

Country : US

Company Phone : NR

Name : Hyundai Motor

Address : 10550 Talbert Avenue
Fountain Valley CA 92708

Country : US

Company Phone : NR

* NR - Not Reported