

Part 573 Safety Recall Report

22V-258

Manufacturer Name : Hyundai Motor America**Submission Date :** APR 14, 2022**NHTSA Recall No. :** 22V-258**Manufacturer Recall No. :** 225**Manufacturer Information :**

Manufacturer Name : Hyundai Motor America

Address : 10550 Talbert Avenue

Fountain Valley CA 92708

Company phone : 800-633-5151

Population :

Number of potentially involved : 922

Estimated percentage with defect : 1 %

Vehicle Information :

Vehicle 1 : 2019-2021 Hyundai Nexa

Vehicle Type : LIGHT VEHICLES

Body Style : SUV

Power Train : CNG/LPG

Descriptive Information : Based on manufacturing records, the subject population for this recall includes certain 2019-2021 model year Nexa vehicles produced by Hyundai Motor Company ("HMC") within the specified production date range for sale in the U.S.

Production Dates : AUG 10, 2018 - JUN 28, 2021

VIN Range 1 : Begin :

NR

End : NR

 Not sequential**Description of Defect :**

Description of the Defect : The hydrogen gas detection sensors in the subject vehicles may degrade over time, resulting in an inability to detect leaks in the hydrogen gas delivery system and illuminate the associated warning light.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : A failure to alert the operator of a hydrogen gas leak could increase the risk of a vehicle fire while parked or driving.

Description of the Cause : The sensor catalyst was produced with insufficiently sized platinum particles allowing silicon to accumulate on the catalyst surface and impede detection of hydrogen gas.

Identification of Any Warning that can Occur : NR

Involved Components :

Component Name 1 : Hydrogen Sensor

Component Description : Sensor for detection hydrogen gas concentration

Component Part Number : 35905-M5000

Supplier Identification :

Component Manufacturer

Name : Sejong Company

Address : 82, Hyoja-ro

Buk-gu Ulsan Foreign States 44252

Country : Korea, Republic of

Chronology :

January 2022

On January 17, 2022, HMC received information regarding a manufacturing change implemented by the supplier to increase the platinum particle size on the catalyst component(s) of the hydrogen gas detection sensors equipped in certain 2019-2021 model year Nexo vehicles in South Korea. HMC notified HMA's NASO of the changepoint on January 24, 2022, prompting a new joint investigation into the condition and its potential effect on vehicles in the field. NASO began a review of field information for potential incidents in the U.S. related to the reported condition.

February 2022

NASO completed its review of U.S. field information and found no incidents had occurred in the U.S. Per a request made by HMC's investigative team, NASO recovered two (2) functional sensors from in-use fleet vehicles and sent them to HMC for replication testing and root cause analysis.

March 2022

In early to mid-March, NASO continued to actively monitor field information for potential incidents. No incidents were found during this time. Two (2) additional functioning sensors from fleet vehicles were recovered and sent to HMC to aid in testing on March 24, 2022.

On March 30, 2022, HMC shared its findings with NASO. According to HMC, laboratory testing confirmed that the smaller platinum particle size on the sensor catalysts allowed for silicon to accumulate on the catalyst surface and create a film that lowered the sensor's ability to detect hydrogen gas concentration. HMC informed NASO and advised of potential vehicles affected in the U.S. and Canada.

April 2022

Based on the information received from HMC, on April 7, 2022, NASO convened its North America Safety Decision Authority and decided to conduct a new recall of affected Hyundai Nexo vehicles in the U.S. to address the defect condition involving the hydrogen gas detection sensor(s).

As of the date of this filing, there are no confirmed fires, injuries, or related incidents in the U.S.

Description of Remedy :

Description of Remedy Program : Owners can continue driving these vehicles; however, Hyundai recommends parking their vehicles outside and away from structures until the recall remedy is completed. All owners of the subject vehicles will be notified by first class mail with instructions to bring their vehicles to a Hyundai dealer to have the hydrogen gas detection sensors replaced. This remedy will be offered at no cost for all affected customers. Hyundai will provide reimbursement to owners for prior repairs in accordance with the plan submitted to NHTSA on February 24, 2022.

How Remedy Component Differs from Recalled Component : The remedy sensors are produced with catalysts containing sufficiently sized platinum particles.

Identify How/When Recall Condition was Corrected in Production : Platinum particle size control measures were implemented into the supplier's manufacturing process on October 15, 2021.

Recall Schedule :

Description of Recall Schedule : Dealers and owners will be notified in accordance with the dates specified in this report.

Planned Dealer Notification Date : JUN 13, 2022 - JUN 13, 2022

Planned Owner Notification Date : JUN 13, 2022 - JUN 13, 2022

* NR - Not Reported