

Part 573 Safety Recall Report

19V-704

Manufacturer Name : General Motors LLC**Submission Date :** OCT 03, 2019**NHTSA Recall No. :** 19V-704**Manufacturer Recall No. :** N192270920**Manufacturer Information :**

Manufacturer Name : General Motors LLC

Address : 29427 Louis Chevrolet Road
MAIL CODE 480-210-2V WARREN MI
48093

Company phone : 586-596-1733

Population :

Number of potentially involved : 166

Estimated percentage with defect : 100 %

Vehicle Information :

Vehicle 1 : 2020-2020 Chevrolet Equinox

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : Supplier and plant production records were used to trace suspect calipers to specific VINs.

Vehicles confirmed to be produced with caliper piston seals using the correct lubricant are not included in this recall.

166 Chevrolet Equinox vehicles are affected by this recall.

Production Dates : JUL 29, 2019 - JUL 31, 2019

VIN Range 1 : Begin :

NR

End : NR

 Not sequential**Description of Defect :**

Description of the Defect : General Motors has decided that a defect which relates to motor vehicle safety exists in certain 2020 model year Chevrolet Equinox vehicles. Brake calipers manufactured by ZF for use in these subject vehicles were produced using an incorrectly labeled assembly fluid. The incorrectly labeled assembly lubricant is incompatible with rubber seals in the brake calipers, which could lead to seals swelling and a reduction of clearance in the seal groove.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : Brake calipers that were exposed to the incorrectly labeled assembly fluid in production may develop a leak, which could eventually result in reduced braking function or drag, which could potentially lead to the overheating of

Description of the Cause : the brake pads, increasing the risk of a crash.
The brake caliper supplier (ZF) received a mislabeled container of assembly lubricant from their Tier 2 supplier.

Identification of Any Warning that can Occur : The customer may get a "low fluid warning" light and notice increased brake pedal travel if fluid leaks at the seal. If brake drag is significant, a customer may notice smoke at the rear brakes.

Supplier Identification :

Component Manufacturer

Name : ZF North America, Inc.
Address : 12001 Tech Center Drive
Livonia MICHIGAN 48150
Country : United States

Chronology :

On July 31, 2019, the Tier 1 rear-caliper supplier (ZF) informed GM that an incorrect lubricant was used in the production of certain rear brake calipers. On August 1, 2019, a GM quality engineer reported the issue to GM's Speak Up For Safety (SUFS) program. On August 2, 2019, GM used its traceability systems to identify an initial population of 625 potentially affected vehicles. This analysis showed that all potentially affected vehicles were within GM's control; no vehicles had been delivered to dealers or sold to customers. GM placed the vehicles on logistics hold. GM opened a product investigation on August 6, 2019.

On August 13, the supplier ZF shared the results of some limited exposure testing it had conducted. That testing did not include brake-performance testing. On August 16, GM and ZF initiated a test plan to evaluate the effect of the incorrect lubricant on brake performance. GM also completed a second traceability analysis and population report on August 16 and learned that four of the suspect vehicles made it to dealerships, but no vehicles had been delivered to customers. Those four suspect vehicles at dealerships were put on stop sale on August 16. Between August 16 and September 17, ZF completed brake performance testing to better understand the effect of this condition. GM reviewed the brake performance test results with ZF on September 9 and September 17, 2019.

Between September 20 and September 25, GM determined that most of the 625 suspect vehicles placed on logistics hold were repaired within GM's control, and only 166 suspect vehicles (all on logistics hold) remained unrepaired. Although GM is not aware of any of the 166 suspect vehicles being delivered to customers, at least 4 suspect vehicles made it to dealers. On September 26, GM's Safety & Field Action Decision Authority (SFADA) decided to conduct a safety recall.

Description of Remedy :

Description of Remedy Program : Dealers will replace the rear brake calipers, including the brake hose gasket, brake fluid, and wheel to hub lubricant. Pursuant to 49 C.F.R. § 573.13(d)(1), all covered vehicles are under warranty, so reimbursement is not offered.

How Remedy Component Differs from Recalled Component : Remedy components use the correct lubricant.
Recalled Component Name: RR BRK ASM
Recalled Component Description: Rear Brake Caliper Assembly
Recalled Component Part Number: 84323158, 84323159
Recalled Component Country of Origin: Mexico

Identify How/When Recall Condition was Corrected in Production : GM implemented a logistics hold on August 2, 2019 to correct suspect vehicles prior to shipment. The supplier implemented a secondary inspection process on August 5, 2019.

Recall Schedule :

Description of Recall Schedule : Dealers will be notified on October 3, 2019. GM will provide owner notification dates when available.
Planned Dealer Notification Date : OCT 03, 2019 - OCT 03, 2019
Planned Owner Notification Date : NR - NR

* NR - Not Reported