

# Part 573 Safety Recall Report

# 16V-802

**Manufacturer Name :** General Motors LLC**Submission Date :** NOV 02, 2016**NHTSA Recall No. :** 16V-802**Manufacturer Recall No. :** 16096**Manufacturer Information :**

Manufacturer Name : General Motors LLC

Address : 30001 VAN DYKE  
MAIL CODE 480-210-2V WARREN MI  
48090

Company phone : 5961733

**Population :**

Number of potentially involved : 1,844

Estimated percentage with defect : 65 %

**Vehicle Information :**

Vehicle 1 : 2017-2017 Cadillac XT5

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : Certain 2017 Cadillac XT5 vehicles.

Production Dates : APR 16, 2016 - MAY 09, 2016

VIN Range 1 : Begin : NR End : NR  Not sequential

Vehicle 2 : 2017-2017 GMC Acadia

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : Certain 2017 GMC Acadia vehicles.

Production Dates : APR 19, 2016 - APR 22, 2016

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 some 2017 Cadillac XT5 and 2017 GMC Acadia vehicles. The front brake calipers in these vehicles may have a torn or extruded caliper piston seal which can result in a loss of hydraulic brake fluid.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : A loss of brake fluid can decrease stopping performance and increase the vehicle's stopping distance, which can result in a crash.

**Description of the Cause :** The supplier of the brake caliper assembly incorrectly machined the front caliper piston bore which can cause the bore to be oversized. The oversized bore can prevent the proper compression of the caliper piston seal and allow the seal to extrude between the piston and the bore.

**Identification of Any Warning that can Occur :** The red "BRAKE" telltale light will illuminate when approximately 72% of the hydraulic brake fluid has leaked from the brake master cylinder reservoir.

## Supplier Identification :

### Component Manufacturer

**Name :** Akebono Brake Corporation

**Address :** 780 International Blvd.  
Clarksville TENNESSEE 37040

**Country :** United States

## Chronology :

On July 1, 2016, a GM Customer Quality Engineer filed a Speak Up for Safety report after reviewing warranty data indicating a front caliper assembly was replaced on a 2017 XT5 with only 51 miles on the vehicle.

In investigating the subject vehicle, a systems safety engineer found that an oversized front caliper piston bore had allowed the piston seal on the subject vehicle to leak hydraulic brake fluid. GM's supplier quality team was then notified of the oversized bore and they, in turn, contacted the supplier of the front caliper assembly, Akebono, to understand how this part was manufactured. The issue was then brought to the Safety and Compliance Categorization Team, who reviewed the issue on August 23, 2016 and recommended further review by GM's Potential Investigation Review board ("PIR"). On September 6, 2016, PIR opened a formal investigation. During the investigation, the investigator reviewed Akebono's manufacturing data with the supplier and concluded that Akebono implemented an out-of-process change that resulted in oversized bores for front caliper pistons machined on one date - April 15, 2016 - and those pistons were installed into front caliper assemblies between April 16 and April 18. Those assemblies were delivered to GM's Spring Hill, TN plant on a "just in time" basis and installed into 2017 XT5 and Acadia vehicles between April 16 and May 9. The investigator also learned that the single vehicle originally identified in the Speak up for Safety report had been built on April 20 with an Akebono front caliper assembly made on April 16.

This investigation was reviewed in GM's Open Investigation Review on October 24, 2016. On October 26, GM's Safety Field Action Decision Authority ("SFADA") decided to conduct a safety recall.

## Description of Remedy :

**Description of Remedy Program :** Dealer will inspect the right and left front caliper assemblies for signs of

**Description of Remedy Program :** leaking brake fluid and for a Julian date between 6106 and 6109. If the date falls within this range, the dealer will replace the brake caliper assembly. If there are signs of brake fluid leakage, the dealer will also replace the disc brake pad. 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 :** The remedy brake caliper bore is accurately machined to the correct size preventing the seal from slipping out of position and breaking.

**Identify How/When Recall Condition was Corrected in Production :** GMC Acadia vehicles built after 04/23/2016 and XT5 vehicles built after 05/09/2016 have front brake calipers with the correct sized bores.

### Recall Schedule :

**Description of Recall Schedule :** General Motors will provide owner letter notification dates when available.

**Planned Dealer Notification Date :** NOV 02, 2016 - NOV 02, 2016

**Planned Owner Notification Date :** NR - NR

\* NR - Not Reported