**Vehicle Report**

Transaction ID: 18-00540-21191-10  (Original Report)

Required fields indicated with *

Your report has been submitted. Your Transaction No. is 18-00540-21191-10.

**Manufacturer: General Motors LLC**

<table>
<thead>
<tr>
<th>Address</th>
<th>Contact Person</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>29427 Louis Chevrolet Road, WARREN MI 48093</td>
<td>Scott Dallos</td>
<td>734-516-9931</td>
</tr>
</tbody>
</table>

This is a Safety Defect Report.

### Vehicle Information

**Chevrolet Cruze 2018 - 2019**

- **Model Yr. Start:** 2018
- **Make:** Chevrolet
- **Model:** Cruze
- **Production Dates**
  - Begin: 03/19/2018
  - End: 06/19/2018

**Chevrolet Equinox 2018 - 2019**

- **Model Yr. Start:** 2018
- **Make:** Chevrolet
- **Model:** Equinox
- **Production Dates**
  - Begin: 03/19/2018
  - End: 06/19/2018

**Chevrolet Impala 2018 - 2019**

- **Model Yr. Start:** 2018
- **Make:** Chevrolet
- **Model:** Impala
- **Production Dates**
  - Begin: 04/18/2018
  - End: 06/21/2018

**Chevrolet Malibu 2018**

- **Model Yr. Start:** 2018
- **Make:** Chevrolet
- **Model:** Malibu
- **Production Dates**
  - Begin: 04/18/2018
  - End: 06/21/2018

**Type:**

- **Body Style:**
- **Powertrain:**

**Descriptive Information:**
Supplier production information was used to identify the start and end date of the improper coating process which was then correlated with manufacturing data. Recalled parts were not properly coated during the manufacturing process.

### VIN Range(s):

- **Begin:**
- **End:**

Manufacturer: General Motors LLC

This is a Safety Defect Report.
<table>
<thead>
<tr>
<th>Make</th>
<th>Model</th>
<th>VIN Range(s): Begin:</th>
<th>VIN Range(s): End:</th>
<th>Production Dates Begin:</th>
<th>Production Dates End:</th>
<th>Type:</th>
<th>Body Style:</th>
<th>Powertrain:</th>
<th>Descriptive Information:</th>
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</thead>
<tbody>
<tr>
<td>Chevrolet</td>
<td>Volt</td>
<td></td>
<td></td>
<td>03/27/2018</td>
<td>06/19/2018</td>
<td>Supplier production information was used to identify the start and end date of the improper coating process which was then correlated with manufacturing data. Recalled parts were not properly coated during the manufacturing process.</td>
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<tr>
<td>GMC</td>
<td>Terrain</td>
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<td>03/19/2018</td>
<td>06/15/2018</td>
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<td>Buick</td>
<td>LaCrosse</td>
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<td>03/27/2018</td>
<td>06/22/2018</td>
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<tr>
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<td>Regal</td>
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<td>05/16/2018</td>
<td>06/25/2018</td>
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<tr>
<td>Cadillac</td>
<td>XTS</td>
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Production Dates
Begin: 04/18/2018
End: 06/21/2018

Descriptive Information:
Supplier production information was used to identify the start and end date of the improper coating process which was then correlated with manufacturing data. Recalled parts were not properly coated during the manufacturing process.

VIN Range(s): Begin: End:
Provide the chronology of events leading up to the defect decision or test data for the noncompliance decision: On May 7, 2018, a GM quality engineer filed a Speak Up For Safety submission based on dealer reports indicating that three GM vehicles failed pre-delivery inspection because of soft brake pedals. GM opened a formal product investigation into the issue on June 12, 2018. ZF, the supplier of the brake calipers at issue, was also investigating similar reports from other OEMs, although GM was not aware of this investigation. In its July 2018 part 573 report, ZF stated that: (i) Volkswagen/Audi notified ZF of a potential issue involving ZF-manufactured brake calipers in Volkswagen/Audi vehicles on May 18, 2018; (ii) ZF notified BMW, another purchaser of the brake calipers, of its investigation on May 23, 2018; and (iii) ZF concluded its root-cause analysis with its brake-piston supplier on May 29, 2018. ZF did not notify GM of the issue until June 14, 2018, and did not list GM as a purchaser of affected brake calipers in its part 573 filing. After receiving notice from ZF, GM worked with ZF to identify the vehicle population that may have been manufactured with a suspect brake caliper and assess the condition's impact on brake performance. On July 27, 2018, GM engineers at GM's Milford Proving Grounds conducted brake-performance testing on a Chevrolet Cruze vehicle equipped with hydraulic equipment that simulated the effect of five cubic centimeters of gas in one or both rear brake systems. On August 10, 2018, GM conducted additional brake-performance testing on a vehicle with seven cubic centimeters of gas in the left rear brake system. As of August 23, 2018, GM had received approximately 375 warranty claims relating to this condition; in 306 of these claims, the dealer was able to identify and correct the condition as part of routine pre-delivery inspection checks. GM is not aware of any crashes caused by this condition. On August 23, 2018, GM's Safety and Field Action Decision Authority (SFADA) decided to conduct a safety recall.

Describe the defect/noncompliance remedy program, including the manufacturer's plan for reimbursement. Dealers will “bleed” the brake system to remove any gas from the rear brake system. Pursuant to 49 C.F.R. § 573.13(d)(1), all covered vehicles are under warranty so reimbursement is not offered.

Describe what distinguishes the remedy component from the recalled component. The brake system was properly manufactured and does not contain trapped hydrogen gas. Recalled Component Name: CALIPER ASM-RR BRK / CALIPER ASM-RL BRK Recalled Component Description: Right Rear Brake Caliper Assembly / Left Rear Brake Caliper Assembly Recalled Component Part Number: 39062769, 39062770, 84323160, 84323161, 84323158, 84323159, 84144904, 84144905, 13498176, 13498177

Identify and describe how and when the recall condition was corrected in production. Vehicles produced after July 17, 2018 contain rear brake caliper pistons that were manufactured without the defect.

Identify the Dealer Notification Schedule

General Motors will provide dealer bulletin and owner letter notification dates when available.

Manufacturer’s identification code for this recall (if applicable):

18279

Please be reminded that owner notification letters must be mailed no more than 60 days from submission of this report.