Manufacturer Name: Ford Motor Company
Submission Date: JUN 08, 2020
NHTSA Recall No.: 20V-332
Manufacturer Recall No.: 20S31

Manufacturer Information:
Manufacturer Name: Ford Motor Company
Address: 330 Town Center Drive
Suite 500 Dearborn MI 48126-2738
Company phone: 1-866-436-7332

Population:
Number of potentially involved: 292,311
Estimated percentage with defect: 3 %

Vehicle Information:
Vehicle Type: LIGHT VEHICLES
Body Style: ALL
Power Train: GAS
Descriptive Information: Affected vehicles are equipped with 3.5L Ecoboost engines.

These vehicles are not produced in VIN order. Information as to the applicability of this action to specific vehicles can best be obtained by either calling Ford’s toll-free line (1-866-436-7332) or by contacting a local Ford or Lincoln dealer who can obtain specific information regarding the vehicles from the Ford On-line Automotive Service Information System (OASIS) database.

Production Dates: SEP 01, 2014 - AUG 01, 2016
VIN Range 1: Begin: NR End: NR

Description of Defect:
Description of the Defect: The brake master cylinder may allow brake fluid to leak from the brake master cylinder front wheel circuit into the brake booster.

FMVSS 1: NR
FMVSS 2: NR

Description of the Safety Risk: Depending on the amount of brake fluid loss from the brake master cylinder front wheel circuit into the brake booster, the driver will receive an audible chime, message center alert, red brake warning indicator in the instrument cluster, and may begin to experience a change in brake pedal travel and feel, and increased pedal effort. If a loss of brake fluid is substantial enough to reduce brake function to the front wheels, full braking function would remain in the rear wheel circuit. However, reduced brake function in the front wheels can extend stopping distance, increasing the risk of a crash.
Description of the Cause:
Investigation of field return parts found the causes of the brake fluid leak to be brake fluid contamination that could interfere with rear cup seal function or, to a lesser extent, rolling of the rearmost cup seal in the master cylinder.

Identification of Any Warning that can Occur:
In the event that a sufficient loss of brake fluid occurs, the driver will receive an audible chime, message center alert, and a red brake warning indicator in the instrument cluster; all indicating that brake system service is required. These indicators are activated whenever the brake fluid in the reservoir is depleted to a predetermined level.

Involved Components:

<table>
<thead>
<tr>
<th>Component Name 1</th>
<th>Component Description</th>
<th>Component Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brake Master Cylinder</td>
<td>Brake Master Cylinder</td>
<td>EL34-2C156-BF for 2014MY</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Component Name 2</th>
<th>Component Description</th>
<th>Component Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brake Master Cylinder</td>
<td>Brake Master Cylinder</td>
<td>JL34-2A32-AC for 2015-2017MY</td>
</tr>
</tbody>
</table>

Supplier Identification:

Component Manufacturer
Name: Hitachi Automotive Systems
Address: 34500 Grand River Avenue
Farmington Hills MICHIGAN 48335
Country: United States

Chronology:
Chronology is provided as an attachment
**Description of Remedy:**

<table>
<thead>
<tr>
<th>Description of Remedy Program</th>
<th>Owners will be notified by mail and instructed to take their vehicle to a Ford or Lincoln dealer to have the brake master cylinder replaced. In addition, the brake booster will be replaced if the brake master cylinder is leaking. There will be no charge for this service.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ford provided the general reimbursement plan for the cost of remedies paid for by vehicle owners prior to notification of a safety recall in February 2019. The ending date for reimbursement eligibility is July 17, 2020.</td>
<td></td>
</tr>
<tr>
<td>Ford will forward a copy of the notification letters to dealers to the agency when available.</td>
<td></td>
</tr>
<tr>
<td>How Remedy Component Differs from Recalled Component</td>
<td>Replacement master cylinders have a silicone lubricant added as a continuous improvement action.</td>
</tr>
<tr>
<td>Component Name</td>
<td>Brake Master Cylinder</td>
</tr>
<tr>
<td>Component Description</td>
<td>Brake Master Cylinder</td>
</tr>
</tbody>
</table>
| Component Part Number | EL34-2C156-BF = 2014MY  
| | JL34-2A32-AC = 2015-2017MY |
| Identify How/When Recall Condition was Corrected in Production | On August 1, 2016, application of a silicone lubricant was added to the master cylinder seal as a continuous improvement corrective action. |

**Recall Schedule:**

| Description of Recall Schedule | Notification to dealers is expected to occur on June 9, 2020. Mailing of owner notification letters is expected to begin June 29, 2020 and is expected to be completed by July 3, 2020. |
| Planned Dealer Notification Date | JUN 09, 2020 - JUN 09, 2020 |
| Planned Owner Notification Date | JUN 29, 2020 - JUL 03, 2020 |

* NR - Not Reported