



U.S. Department
of Transportation

**National Highway
Traffic Safety
Administration**

ODI RESUME

Investigation: PE 16-003
Date Opened: 02/29/2016
Investigator: Joseph Oxenham **Reviewer:** Jeff Quandt
Approver: Otto Matheke
Subject: Master cylinder failure

MANUFACTURER & PRODUCT INFORMATION

Manufacturer: Ford Motor Company
Products: 2013-2014 Ford F-150 with 3.5L engine
Population: 420,000 (Estimated)
Problem Description: Consumers report incidents of brake fluid leaking from the master cylinder into the brake booster, resulting in loss of brake effectiveness.

FAILURE REPORT SUMMARY

	ODI	Manufacturer	Total
Complaints:	33	TBD	TBD
Crashes/Fires:	4	TBD	TBD
Injury Incidents:	0	TBD	TBD
Number of Injuries:	0	TBD	TBD
Fatality Incidents:	0	TBD	TBD
Number of Fatalities:	0	TBD	TBD

ACTION / SUMMARY INFORMATION

Action: A Preliminary Evaluation has been opened.

Summary:

The Office of Defects Investigation has received 33 reports alleging master cylinder failures in model year (MY) 2013 through 2014 Ford F-150 full size pickup trucks. All of the reports involve F-150 trucks equipped with 3.5L engines, with an estimated 420,000 units sold in the United States representing approximately 36 percent of MY 2013-2014 F-150 sales. The complaints allege symptoms of brake pedal going to the floor with complete loss of brake effectiveness, brake warning lamp illumination, and/or low or empty master cylinder reservoir fluid level with no visible leakage. Several complaints allege repair facilities diagnosed the problem as brake fluid leaking from the master cylinder to the brake booster. Thirty-one (31) of the reports were received in the last 12 months, including 20 in the last 7 months. Four complaints allege that the alleged defect resulted in collisions.

A Preliminary Evaluation has been opened to assess the scope, frequency, and safety-related consequences of the alleged defect.

The ODI complaints cited above can be viewed at www.safercar.gov under the following ODI identification numbers: 10818273, 10817706, 10809601, 10788886, 10788369, 10785526, 10779854, 10776834, 10766291, 10762034, 10761412, 10760663, 10758997, 10750065, 10749886, 10748122, 10747875, 10747531, 10746143, 10745511, 10744847, 10743344, 10733196, 10733023, 10731327, 10725476, 10725096, 10725046, 10724169, 10715103, 10692723, 10662564, and 10632103.