



U.S. Department
of Transportation
**National Highway
Traffic Safety
Administration**

ODI RESUME

Investigation: PE 05-033

Date Opened: 06/15/2005

Date Closed: 10/13/2005

Principal Investigator: Cynthia Glass

Subject: Electrical system failure

Manufacturer: Ford Motor Company
Products: 1999-2001 Ford Expedition
Population: 653,471

Problem Description: Water leaks around the windshield causing failure of various electrical components including but not limited to the windshield wipers and headlamps.

FAILURE REPORT SUMMARY

	ODI	Manufacturer	Total
Complaints:	39	1464	1503
Crashes/Fires:	0	0	0
Injury Incidents:	0	0	0
# Injuries:	0	0	0
Fatality Incidents:	0	0	0
# Fatalities:	0	0	0
Other*:	0	0	0

*Description of Other:

Action: This Preliminary Evaluation has been upgraded to an Engineering Analysis (EA05015).

Engineer: Cynthia Glass

Date: 10/13/2005

Div. Chief: Thomas Z. Cooper *TZC*

Date: 10/13/2005

Office Dir.: Kathleen C. DeMeter

Date: 10/13/2005

Summary: ODI has received 39 reports alleging that water leaks around the windshield causing electrical failures, including but not limited to the windshield wipers and the headlamps. Ford reports that water entering the vehicle can wet the power distribution box (PDB) and the generic electronic module (GEM). These components control various electrical systems in the vehicle. This investigation has been upgraded to an Engineering Analysis, EA05015, to allow further investigation of the issue and to assess the nature of the potential safety consequence.

TZC
10-13-05