



ODI RESUME

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

Investigation: EA06-012
Prompted By: PE06-011
Date Opened: 06/22/2006
Principal Investigator: Scott Yon
Subject: Engine Stalling

Manufacturer: Ford Motor Company
Products: 1999 - 2001 Ford Super Duty And Excursion With 7.3l Diesel
Population: 716,089

Problem Description: The engine stalls due to a failure of the cam position sensor (CPS).

FAILURE REPORT SUMMARY

	ODI	Manufacturer	Total
Complaints:	68	755	821
Crashes/Fires:	7	2	9
Injury Incidents:	1	0	1
# Injuries:	2	0	2
Fatality Incidents:	0	0	0
# Fatalities:	0	0	0
Other*:	0	166,384	166,384

*Description Of Other: Potentially related warranty claims

Action: PE06-011 has been upgraded to an Engineering Analysis (EA).

Engineer: D. Scott Yon *DSY* 6/22/06 Date: 06/22/2006
Div. Chief: Jeffrey L. Quandt Date: 06/22/2006
Office Dir.: Kathleen C. DeMeter Date: 06/22/2006

Summary: The cam position sensor (CPS) provides a critical signal to the subject vehicle (SV) engine management system, the loss of which results in an engine stall. During PE06-011, Ford stated in their response to ODI that it is continuing to investigate allegations of CPS related engine stall and further advised that an update will be provided upon completion of the investigation.

Ford data shows that 20% of the 716,000 SVs are equipped with manual transmissions that are capable of back-driving the engine when a stall occurs; power assisted steering and braking are not lost during engine back-drive. Ford data also indicates that back-drive occurs in automatic transmission vehicles above certain road speeds.

The manufacturer reports noted reference 755 unique vehicles; 2 are duplicative of ODI reports. In its review of customer and field reports, Ford identified some 800 reports alleging one or more engine stalls potentially related to a cps failure in these 755 vehicles (Ford's 'A' Category reports). ODI has not completed its review of these or other Ford reports, nor has it confirmed this count. All but one of the 9 crash allegations appear to be minor in nature although ODI is still investigating these crash/injury allegations and whether or not they involve a CPS failure. Based on early assessment of the approximately 166,000 subject vehicle warranty claims Ford paid, there appears to be variability in claim rates between certain SV production periods; an explanation for this has not been identified. Ford reviewed a sample of the warranty claims and indicated that about half may involve a stall due to CPS failure; ODI has yet to confirm this assessment.

During the Engineering Analysis, ODI will continue its review of the data Ford provided including sampling and categorizing reports and evaluating Ford's assessment of the data. A primary goal will be to establish the frequency and conditions under which engine stalling occurs, as well as the likelihood that the engine can be restarted after a stall has occurred. ODI will continue reviewing existing crash and injury allegations as well as identify other safety related consequences of CPS related stalling.

Handwritten signature and date: 6-22-06