ODI RESUME

INVESTIGATION : EA94-022

DATE CLOSED: March 2, 1995

SUBJECT

Loss of Power Steering Assist

PROMPTED BY

PE94-032

PRINCIPAL ENGINEER:

L. Strickland L. Strickle

MANUFACTURER

Ford Motor Company

MODEL

Crown Victoria Equipped with Police Package

MODEL YEARS

1992 - 1993

VEHICLE POPULATION: 54,776

The alleged defect in this investigation refers to unforewarned and significantly diminished level of steering power assist, including but not limited to, circumstances in which the power steering assist system may appear to have failed completely.

ACTION:

Close, this Engineering Analysis.

BRCH CHF

OFC DIR

SUMMARY: To fully evaluate the issues involved in this investigation, ODI conducted a comprehensive analysis involving:

- Surveys of Law Enforcement Agencies Two notices were broadcast over the nationwide police electron telecommunication system; Information Requests were sent to 9 Law Enforcement Agencies; and meetings were held with two police agencies.
- Accident Reconstruction O NHTSA contracted with an independent engineering firm to have all accidents reconstructed that were allegedly caused by this phenomena.
- Accident Data Analysis 0 NHTSA's National Center for Statistics and Analysis conducted a review of State Data and the Fatal Accident Reporting System.
- Manufacturer Inputs 0 ODI staff met with Ford to discuss technical merits of the investigation and submitted two information requests for data.
 - ODI Database Analysis ODI conducted a telephone survey of all complaints in its database which appeared to be related to this issue.

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ODI conducted extensive testing to:
verify and quantify the phenomenon using instrumented
vehicles and test drivers on a precision maneuvers driving
course;
examined the human factors aspects of the phenomenon using
34 police officer volunteers on a test track;
conducted slalom and lane change tests; and
conducted drop-throttle tests and static tests.

After reviewing all of the data obtained during this analysis, ODI has determined that the particular performance characteristics of the subject steering system may present a brief loss of power assist during extremely aggressive but foreseeable driving maneuvers. However, the collective body of information disclosed and developed during this investigation shows that this performance does not represent an unreasonable risk to motor vehicle safety within the meaning of the National Traffic and Motor Vehicle Safety Act. Therefore this investigation is closed. Detailed information on all aspects of this investigation is contained in the EA Closing Report.

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