



U.S. Department
of Transportation

**National Highway
Traffic Safety
Administration**

ODI RESUME

Investigation: PE 16-006
Date Opened: 06/14/2016
Investigator: Kareem Habib **Reviewer:** Jeff Quandt
Approver: Stephen Ridella
Subject: Yaw rate sensor malfunction

MANUFACTURER & PRODUCT INFORMATION

Manufacturer: Toyota Motor Corporation
Products: MY2001-2002 Toyota Sequoia
Population: 134,989 (Estimated)

Problem Description: Consumers allege incidents of unexpected Vehicle Stability Control (VSC) activations while driving at various speeds resulting in automatic application of braking force to the left or right front wheel and unexpected steering pull in the direction of the brake application.

FAILURE REPORT SUMMARY

	ODI	Manufacturer	Total
Complaints:	135	TBD	135
Crashes/Fires:	2	TBD	2
Injury Incidents:	2	TBD	2
Number of Injuries:	5	TBD	5
Fatality Incidents:	0	TBD	TBD
Number of Fatalities:	0	TBD	TBD
Other*:	26	TBD	26

***Description of Other:** Complaints associated with yaw rate sensor malfunctions that do not involve allegations of significant pull.

ACTION / SUMMARY INFORMATION

Action: A Preliminary Evaluation has been opened.

Summary:

The Office of Defects Investigation (ODI) has identified 135 complaints alleging incidents of unexpected steering pull while driving due to inappropriate Vehicle Stability Control (VSC) brake interventions in model year 2001 and 2002 Toyota Sequoia vehicles. Approximately half of the complaints indicate that a faulty yaw rate sensor was diagnosed as the cause of the VSC activations and the remaining complaints report similar symptoms and driving conditions. Approximately 60 percent reported a vehicle pull to the right at highway speeds. Many of the complaints allege experiencing multiple incidents with some involving little to no pull lasting several seconds and others involving greater pull for short duration, frequently described as feeling like a "jerk" to the steering wheel.

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

The following VOQ numbers are associated with the 135 complaints discussed in this resume:

10870753, 10865587, 10865303, 10862787, 10860250, 10855618, 10838509, 10836713, 10822732, 10816792, 10789869, 10785944, 10783037, 10765299, 10762033, 10759414, 10748894, 10735983, 10735958, 10734673, 10731635, 10731062, 10725403, 10723782, 10722542, 10721840, 10715759, 10715406, 10712903, 10692211, 10680083, 10676233, 10671957, 10649475, 10648921, 10639128, 10638442, 10632788, 10628214, 10626485,

10622590, 10615491, 10615167, 10609313, 10607843, 10606484, 10604887, 10598410, 10598228, 10594348, 10586493, 10585822, 10574622, 10563106, 10562563, 10557541, 10554761, 10553756, 10548390, 10548121, 10546430, 10545651, 10545390, 10544345, 10538429, 10538259, 10536498, 10533611, 10532776, 10524511, 10519417, 10519373, 10515727, 10512744, 10504909 (10363807 & 10238578), 10502275, 10493352, 10492321, 10490568, 10484951, 10470780, 10469248, 10468481, 10467877, 10466862, 10465160, 10461749 (10461748), 10461478 (10428158), 10460771, 10459819, 10459160, 10457214, 10456979, 10454205, 10452949, 10446216, 10443162, 10428170, 10423033, 10422611, 10422228, 10415928, 10414662, 10413334, 10410758, 10410211, 10405657, 10394361, 10393560, 10382828, 10372559 (10307457), 10367931, 10365058, 10363694, 10362837, 10350806, 10346862, 10346267, 10345425, 10336461, 10336305, 10328193, 10328039, 10322783, 10293341, 10283454, 10277283, 10277153, 10266864, 10250448, 10233745, 10232169, 10139641, 10137681, 10049104 (VOQs in parentheses involve multiple complaints on a common vehicle).

The following VOQ numbers are associated with the 26 complaints listed under OTHER:

10825460, 10816351 (10761804), 10794540, 10760105, 10632010, 10627946, 10606105, 10604499, 10547393, 10440213, 10417138, 10402588, 10398012, 10372308, 10369049, 10365937, 10340336, 10335253, 10332273, 10326046, 10313456, 10280989, 10268705, 10251654, 10166473, 10166357.