



U.S. Department
of Transportation

**National Highway
Traffic Safety
Administration**

ODI RESUME

Investigation: DP 18-003
Prompted by: CAS Petition
Date Opened: 08/21/2018
Investigator: Michael Lee
Approver: Stephen Ridella
Subject: Non-crash Vehicle Fires

Date Closed: 05/10/2019
Reviewer: Paul Simmons

MANUFACTURER & PRODUCT INFORMATION

Manufacturer: Kia Motors America, Hyundai Motor America
Products: Certain 2010-2015 Hyundai and Kia models (see details below)
Population: 3,000,000

Problem Description: Allegations of non-crash vehicle fires.

FAILURE REPORT SUMMARY

	ODI	Manufacturer	Total
Complaints:	404	2,721	3,125
Crashes/Fires:	404	2,721	3,125
Injury Incidents:	12	73	85
Number of Injuries:	14	89	103
Fatality Incidents:	1	1	1**
Number of Fatalities:	1	1	1**
Other*:	2	3	5

***Description of Other:** Reports of non-crash fires that allegedly caused a vehicle crash.

** Total eliminates duplicates received by ODI and manufacturer.

ACTION / SUMMARY INFORMATION

Action: Defect Petition DP18-003 has been granted. Preliminary Evaluations (PE19-003 and PE19-004) have been opened.

Summary:

In a letter dated June 11, 2018, the Center for Auto Safety (CAS) petitioned the National Highway Traffic Safety Administration (NHTSA) to initiate a safety defect investigation into non-collision related fires on model year (MY) 2011-2014 Kia Optima and Sorento, and Hyundai Sonata and Santa Fe vehicles. In a letter dated July 24, 2018, CAS requested that MY 2010-2015 Kia Soul vehicles be added to the petition. CAS stated that there is a higher number of complaints to NHTSA regarding non-crash fires on these vehicles compared to other similar vehicles. The Office of Defects Investigation (ODI) had already opened Recall Queries (RQ17-003 and RQ17-004) on all Kia and Hyundai vehicles equipped with Theta II engines for engine failures that may cause stalling and fires. The queries cover most of the petition subject Optima, Sorento, Sonata, and Santa Fe vehicles but not any of the subject Soul vehicles.

On August 21, 2018, ODI opened a Defect Petition (DP18-003) to evaluate whether to grant or deny the CAS petition. ODI sent Information Request letters to Kia and Hyundai (September and October 2018) requesting information on all engine and non-engine related fires in the petition vehicles. ODI performed extensive analysis on the information obtained from Kia and Hyundai. During the DP18-003 analysis, Kia and Hyundai each initiated three additional safety recalls related to engine compartment fires on certain petitioned and non-petitioned vehicles (nearly 740,000 total vehicles: Recalls 18V-907, 18V-934, 19V-101, 19V-063, 19V-120, and 19V-204). Based on ODI's review of the applicable materials, including responses to Information Requests sent to multiple manufacturers, Vehicle Owner Questionnaires (VOQ), and Early Warning Data, NHTSA decided to grant the petition.

The CAS petition was granted on March 29, 2019. Preliminary Evaluations (PE19-003 on Hyundai and PE19-004 on Kia) have been opened to assess the scope, frequency, and potential safety-related consequences of alleged defects relating to non-collision vehicle fires in the 2011-2014 Kia Optima and Sorento, 2011-2014 Hyundai Sonata and Santa Fe, and 2010-2015 Kia Soul.

Attached is a list of the reference numbers for the 404 VOQs cited above.

244 VOQ Numbers on Kia Vehicles

10341928, 10349737, 10351369, 10352853, 10359951, 10362292, 10370821, 10398744, 10412239, 10429442, 10429655, 10437522, 10441602, 10441698, 10447319, 10458979, 10476786, 10554720, 10566975, 10572612, 10587361, 10608591, 10626163, 10639351, 10639417, 10645013, 10661186, 10692124, 10693084, 10694186, 10702294, 10705662, 10714982, 10722839, 10726832, 10731276, 10748707, 10783067, 10786603, 10787041, 10787877, 10789435, 10808477, 10824280, 10836581, 10836751, 10839138, 10846035, 10850516, 10865183, 10873241, 10873251, 10874184, 10892633, 10894943, 10898504, 10901907, 10903731, 10903804, 10915744, 10918948, 10926798, 10927841, 10938549, 10958524, 10965933, 10970145, 10971641, 10978698, 10984187, 10984715, 10984970, 10985144, 10991332, 10991353, 10994523, 11001902, 11004359, 11004929, 11005870, 11010794, 11010999, 11012450, 11012531, 11013481, 11013556, 11015550, 11015777, 11015830, 11016332, 11019133, 11021789, 11022903, 11022912, 11025437, 11031971, 11040562, 11041768, 11047022, 11052937, 11055326, 11066866, 11071675, 11073341, 11074148, 11075310, 11076296, 11080315, 11081758, 11083606, 11089043, 11089968, 11090119, 11090295, 11093994, 11096761, 11097793, 11097934, 11098807, 11101703, 11101961, 11102293, 11102349, 11110065, 11110876, 11110889, 11111005, 11111480, 11111708, 11111767, 11112053, 11112362, 11112455, 11112486, 11112495, 11112496, 11112989, 11113500, 11114289, 11114517, 11115586, 11115650, 11115903, 11119545, 11119577, 11119685, 11119735, 11120580, 11120842, 11121206, 11121693, 11121719, 11121844, 11122204, 11123614, 11124571, 11127964, 11128568, 11128790, 11128814, 11128846, 11128852, 11129070, 11129587, 11131126, 11132280, 11132316, 11132429, 11132956, 11132973, 11133028, 11133307, 11133319, 11133458, 11139133, 11139148, 11139335, 11139506, 11140287, 11140337, 11140471, 11140474, 11141168, 11141323, 11141807, 11142172, 11142200, 11142272, 11142750, 11144208, 11144563, 11150291, 11151813, 11152031, 11153421, 11153705, 11154095, 11154128, 11154184, 11154347, 11154526, 11154607, 11154618, 11156388, 11156505, 11160651, 11160749, 11160978, 11161031, 11162215, 11163325, 11163941, 11164332, 11164861, 11166761, 11170550, 11170556, 11170588, 11170597, 11170614, 11170642, 11170778, 11171259, 11171483, 11173061, 11173144, 11173740, 11175775, 11176066, 11176183, 11176454, 11181712, 11183465, 11183921, 11183965, 11184819, 11185770, 11186541, 11187011, 11187068, 11187086, 11189793, 11190052, 11190214.

160 VOQ Numbers on Hyundai Vehicles

11190333, 10436180, 10476823, 10748982, 10861488, 10905594, 10949004, 10981324, 10984546, 10993939, 11170112, 11014194, 11021322, 11044183, 11065937, 11161289, 11080980, 11155446, 11104590, 11105401, 11111915, 11113354, 11150942, 11150343, 11139181, 11140657, 11140752, 11142268, 11141534, 10346874, 10386128, 10424306, 10453009, 11187260, 10465924, 10482868, 10503081, 10534292, 10546705, 10547548, 10553823, 10555125, 10558870, 11184400, 11184011, 10560485, 10610098, 11183838, 10640908, 11183412, 10650571, 10693248, 10777612, 10779962, 10780668, 10785478, 10787131, 11181677, 10787681, 10806151, 10807125, 10809023, 10818639, 11176681, 10821034, 10824796, 10838002, 10838571, 10852467, 10852782, 10883323, 10884112, 10895904, 10903380, 10920235, 10926855, 10930342, 10957216, 11171819, 10957996, 10959452, 10968643, 10968692, 10970853, 10971800, 10972006, 10980295, 10990665, 10991246, 10991729, 10993156, 10993381, 11006558, 11010849, 11011280, 11012907, 11016078, 11022683, 11164364, 11023916, 11030381, 11043333, 11045499, 11057393, 11057396, 11058273, 11162844, 11060659, 11161091, 11066433, 11066583, 11160681, 11081124, 11157188, 11081341, 11082829, 11155821,

11090028, 11091115, 11102289, 11155488, 11102708, 11102866, 11103420, 11154432, 11104584,
11110362, 11153979, 11112530, 11115112, 11115234, 11115291, 11115600, 11118528, 11118695,
11152354, 11121653, 11122979, 11122570, 11123583, 11124397, 11124486, 11128195, 11129928,
11130638, 11130821, 11130902, 11131691, 11131686, 11139611, 11140750, 11140546, 11140573,
11144171, 11140567, 11143313, 11142780, 11141082, 11142519, 11141187.