

**2011-2017 My Optima, 2011-2018 MY Sportage, 2012-2017 MY Sorento  
High Pressure Fuel Pump Outlet Inspection  
Basis of Safety Defect Determination 573.6(c)(6) [AMENDED]**

<b>March 31, 2017</b>	Kia Motors America, Inc. (“KMA”) initiates recall of 2011-2014MY Optima, 2012-2014MY Sorento and 2011-2013MY Sportage due to engine stalling (17v224).
<b>August 2018</b>	KMA identifies that some reports of engine fires may be related to vehicles which have been repaired under recall 17v224. No cause identified. KMA expands its fire investigation efforts by creating a dedicated portion of its customer assistance call center to manage every allegation of fire received and acquiring services of selected team of vehicle fire investigators to investigate and inspect reported fires.
<b>August 21, 2018</b>	NHTSA opens Defect Petition (DP18-003) to investigate non crash fires involving 2011-2014MY Kia Optima and Sorento vehicles. Additional KMA focus added to already ongoing fire investigation efforts.
<b>September 2018</b>	KMA issues to its dealers Engine Replacement Practices Reminder technical service bulletin emphasizing importance of proper engine replacement practices and verification of proper repairs.
<b>October 20, 2018</b>	NHTSA and KMA begin holding weekly telephone conferences regarding vehicle fire inspections that have been or will be conducted in the future so that KMA and NHTSA can share inspection results and potential defect trends in real time.
<b>November 20, 2018</b>	KMA advises NHTSA during weekly telephone conference that it believes, although not confirmed, that fires occurring in 11-14 MY vehicles with post-recall engine replacement may be related to leaking fuel or engine oil.
<b>November 27, 2018</b>	NHTSA/Kia weekly telephone conference. KMA identifies focus of investigation of post-recall engine replacement fires is potential fuel leaking from high pressure fuel line and fuel pump outlet area. Possible misalignment and/or improper torqueing of fuel pipe to fuel pump by certain technicians during engine replacement.
<b>December 4, 2018</b>	KMA meets with Kia Motors Corporation (“KMC”) in Korea to advise details of vehicle fire inspection results and its analysis of potential causes.
<b>December 11, 2018</b>	KMA advises NHTSA that KMC is evaluating the issue. Final decision expected shortly.
<b>December 14, 2018</b>	KMA confirms fuel leaking due to improper repair for fire incident vehicle identified to NHTSA during 12/11/18 call. KMA reports results to KMC.
<b>December 17, 2018</b>	KMC immediately makes decision to conduct a voluntary safety recall. No accidents or injuries reported. Six (6) post engine

	replacement recall repairs leading to fires have been identified or suspected.
<b>December 19, 2018</b>	KMA initiates recall SC172 High Pressure Fuel Pump Outlet Inspection by providing a 573 notice to NHTSA. This recall covers vehicles which have received replacement engines under prior recall 17v224.
<b>January 6-7, 2019</b>	Evaluation of 2015-2018 MY Optima, Sorento and Sportage vehicles with 2.4L and 2.0L Gasoline Direct Injection (GDI) engines (“evaluation vehicles”) indicates that dealer service techs who replaced engines under warranty for those vehicles would have received the same replacement instructions as for the recalled vehicles under 17v224. KMA decides to investigate whether such vehicles have experienced any leaking fuel pipes or engine fires.
<b>January 7--January 11, 2019</b>	KMA conducts search for engine replacements for evaluation vehicles. KMA then reviews customer complaint and Techline data to determine existence of any alleged engine compartment fires following engine replacement. No leaking fuel pipes or fire incidents are identified. KMA engineers can find no indication of a needed action at this time.
<b>January 12 - 21, 2019</b>	KMA continues to evaluate risk of fire and discuss with Kia Motors Corporation (KMC).
<b>January 22, 2019</b>	Despite the absence of any fires in 2015-2018MY vehicles, KMA proposes field action to KMC based on the potential risk of dealer service techs having not followed engine replacement instructions when conducting fuel pipe reinstallation/replacement.
<b>January 23, 2019</b>	KMA conducts additional search for engine replacement claims under warranty and the KSDS Product Improvement Campaign for the 2014MY Optima and Sportage vehicles outside scope of 17v224. Further evaluation of existence of fire reports associated with those claims conducted. No fire incidents reported post engine replacement.
<b>January 24, 2019</b>	KMC decides to expand the scope of recall SC172 to have the evaluation vehicles inspected to confirm the fuel pipes have been correctly and safely installed.