

**2020-2021 MY Soul & 2021MY Seltos Piston Oil Ring Chronology
Basis of Safety Defect Determination 573.6(c)(6)**

<p>October to December 2020</p>	<p>Kia Motors North America (KMNA) becomes aware of 2020MY Soul VOQ (11365951) filed October 23, 2020 involving customer complaint of engine noise and stall while stopped. KMNA reviews its internal records and confirms engine had seized. KMNA sends VOQ to Kia Motors Corporation (KMC) for their review. KMC requests engine be sent to Korea. KMNA advises NHTSA’s Office of Defects Investigation (ODI) during its November 3rd meeting its findings and plans to collect engine for KMC’s further analysis. Engine shipped to KMC on December 17, 2020 after difficulties in obtaining engine due to customer having traded vehicle in to used-car dealer. KMNA begins review of replacement claims for Nu 2.0L MPI engines to identify instances of loss of motive power.</p>
<p>January 2021</p>	<p>Results of engine replacement claims data through December 31, 2020 shows that instances of loss of motive power while driving is very low [2020-2021 Soul: 0.07%; 2021 Seltos: 0.05%]. KMNA sends claim data to KMC for its review.</p> <p>KMC receives VOQ engine (11365951) on January 6, 2021 and subsequently conducts tear down inspection. Inspection reveals chipped piston oil ring, bore scratched and connecting rod bearing seized. KMC shares investigation results with KMNA.</p> <p>KMNA advises ODI of KMC’s findings on January 26, 2021 during its monthly meeting. KMNA continues to monitor the field.</p>
<p>February 5-28, 2021</p>	<p>As part of KMNA’s monitoring efforts, engine replacement warranty claim data is updated through 1/31/2021. No significant increase of instances of loss of motive power while driving [2021-2021 Soul: 0.08%; 2021 Seltos: 0.07%]. KMNA sends updated data to KMC.</p> <p>KMC also reviews engine replacement warranty claim data and identifies claims for engines manufactured at its Hwasung plant might contain a potential engine issue.</p> <p>On February 9, 2021, KMNA engineer conducts inspection of fire incident which occurred on or around January 21, 2021 involving a 2020 Kia Soul due to oil leaking on exhaust. Cause of fire due to hole in block from damaged connecting rod. Underlying cause of hole in block unknown.</p>

<p>March-April 5, 2021</p>	<p>On March 9, 2021, KMNA third party fire investigator conducts inspection of fire incident which occurred on February 10, 2021 involving another 2020 Soul. Inspection reveals origin of fire in engine compartment. Fire caused by oil making contact with exhaust following connecting rod puncturing engine block. Underlying cause of hole in block unknown.</p> <p>KMC works with supplier to further evaluate issue and determine potential cause. Issue with heat treatment process of piston oil ring identified. Correlation between engine replacement claims and piston oil ring chip identified. KMNA evaluates KMC's investigation results and conducts predictive analysis to confirm potential increase of engine replacement claims.</p>
<p>April 6, 2021</p>	<p>KMNA decides to conduct recall. Four (4) fires potentially related to this issue. No known crashes, injuries or fatalities.</p>