

**2017-2018MY Forte Engine Oil Pump Chronology
Basis of Safety Defect Determination 573.6(c)(6)**

January 2021	While evaluating an engine issue involving certain 2020-2021 Soul and 2020 Seltos vehicles equipped with 2.0L Nu MPI engines, KMNA runs engine replacement claim data for the 2017-2018 Forte (YDm) and 2019-2021 Forte (BDm) vehicles produced at the Kia Mexico plant equipped with the same 2.0L Nu MPI engines. Results of engine replacement claims data through December 31, 2020 shows that instances of loss of motive power while driving are very low [2017-2018 Forte: 0.14%; 2019-2021 Forte: 0.02%]. KMNA sends claim data to Kia Motors Corporation (KMC) for its review. KMNA continues to monitor.
February 2021	As part of its monitoring efforts, engine replacement warranty claim data is updated thru January 31, 2021. The data shows that the claim level fundamentally remained the same for instances of loss of motive power. [2017-2018 Forte: 0.15%; 2019-2021 Forte: 0.02%]. KMNA sends updated data to KMC.
March 2021	<p>KMC reviews claim data for the Forte model and identifies an increased number of engine replacement claims during the June/July 2017 production period. KMC evaluates engine change history and identified that a change was made to oil pump plunger edge shape. Further evaluation conducted to determine correlation of oil pump change and engine replacement claims and confirms correlation the with change. KMC shares information with KMNA.</p> <p>KMNA evaluates KMC’s investigation results and conducts predictive analysis to confirm potential increase of engine replacement claims during the June/July production period identified by KMC.</p>
April 6, 2021	Based on KMNA’s predictive analysis and change made by KMC to oil pump, KMNA decides to conduct recall as a preventative measure. No known crashes, injuries, fatalities or fires.