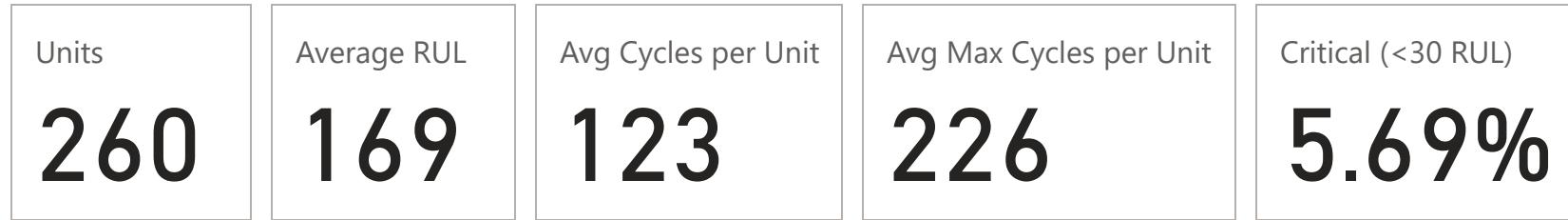


NASA Turbine Maintenance Prediction Analysis - KPI

Turbofan Engine Degradation Simulation

<https://www.nasa.gov/intelligent-systems-division/discovery-and-systems-health/pcoe/pcoe-data-set-repository/>



Key influencers Top segments

What influences rul to Decrease ?

When...

...the average of rul decreases by

Sum of mean5_sensor11 is more than 47.702

135.3

Sum of mean5_sensor3 is more than 1590.252

121.2

Sum of mean5_sensor17 is more than 393

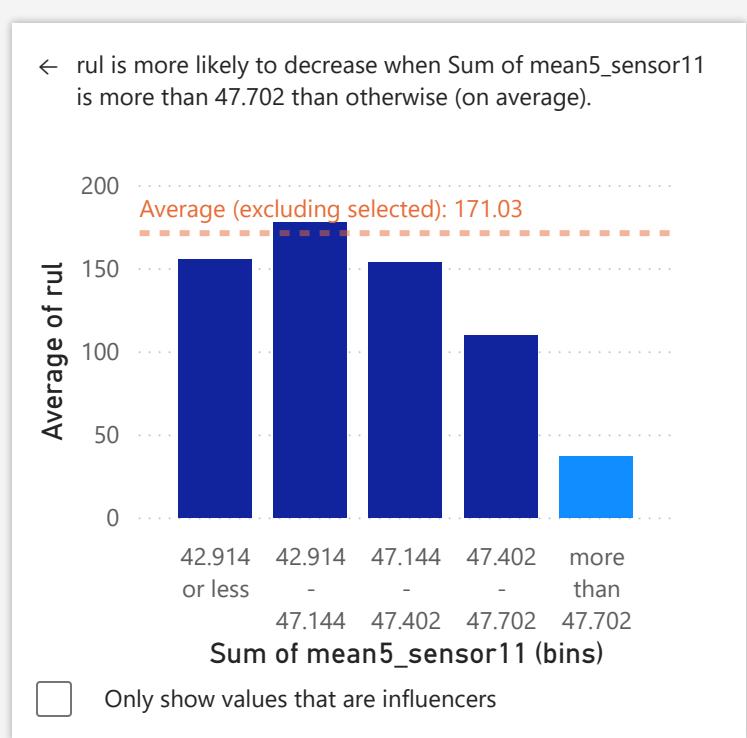
118.9

Sum of mean5_sensor20 is 37.04 - 38.768

116.9

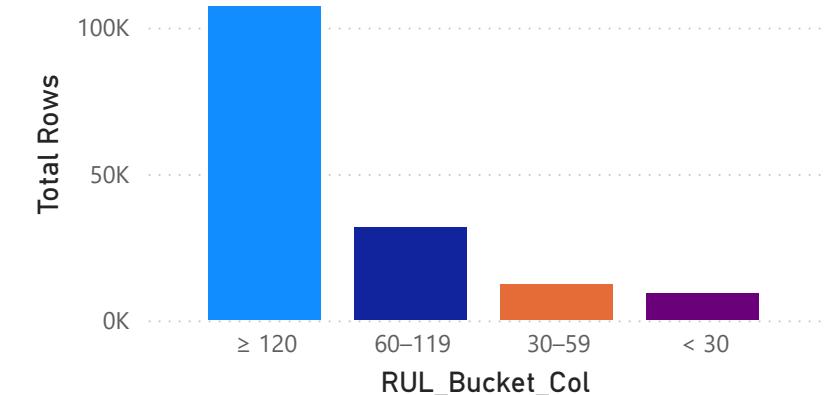
Sum of mean5_sensor14 is more than 8153.534

116.6

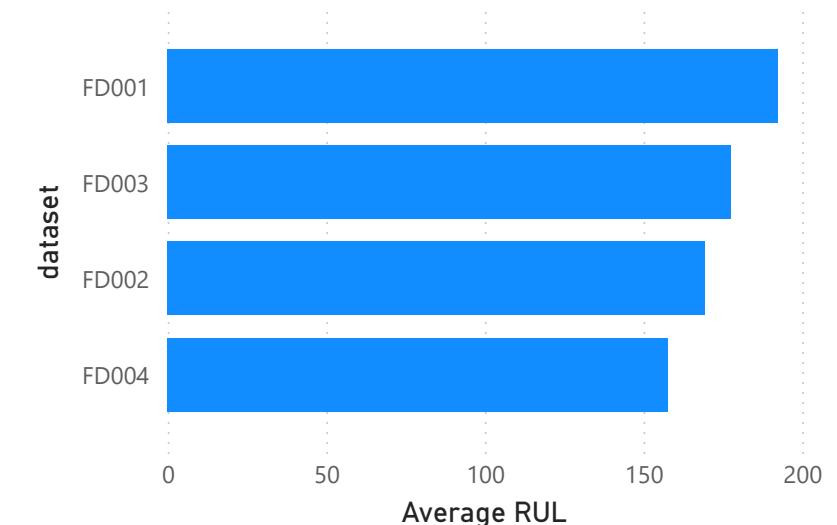


Count by RUL (Bucket=30)

RUL_Bucket_Col ... ≥ 120 60–119 30–59 < 30

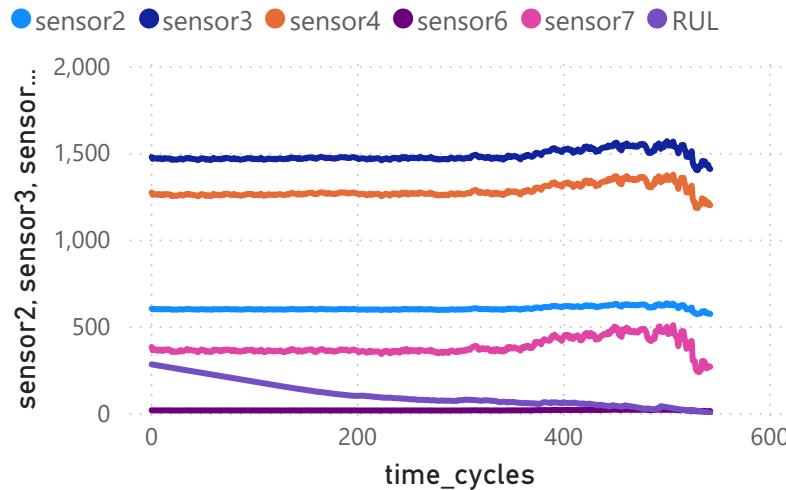


Average RUL by dataset

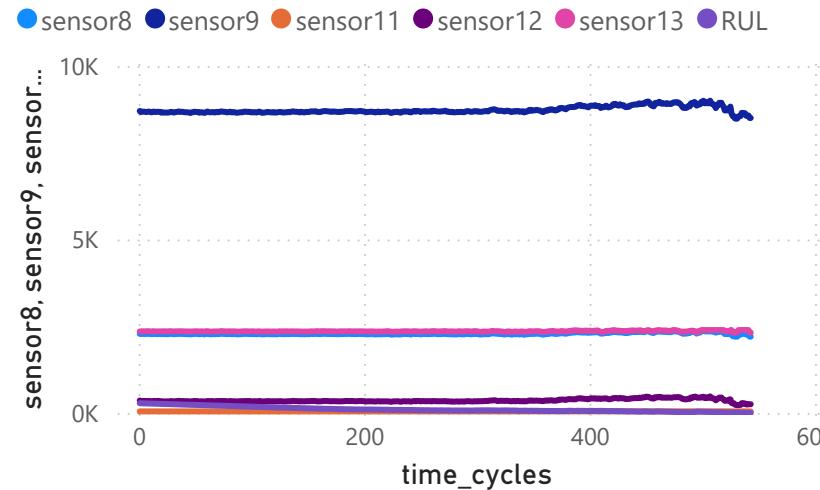


Analysis - Sensor Correlations mean5 and mean20

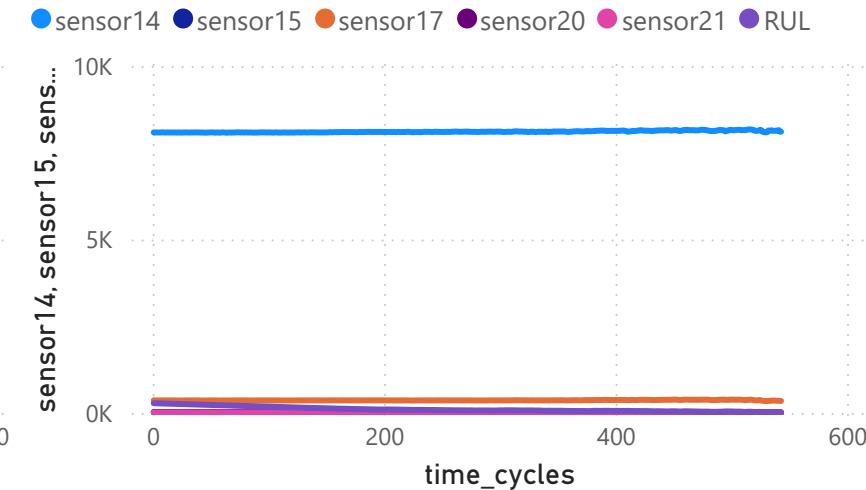
mean5: sensor2, sensor3, sensor4, sensor6, sensor7 and RUL by time_cycles



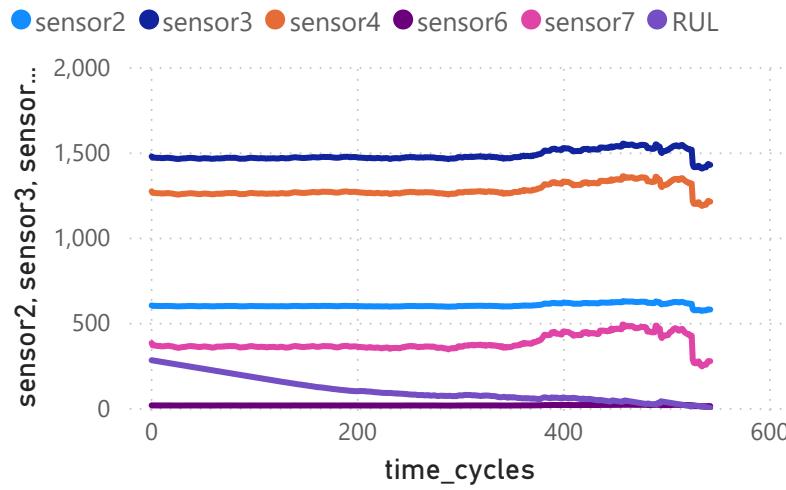
mean5: sensor8, sensor9, sensor11, sensor12, sensor13 and RUL by time_cycles



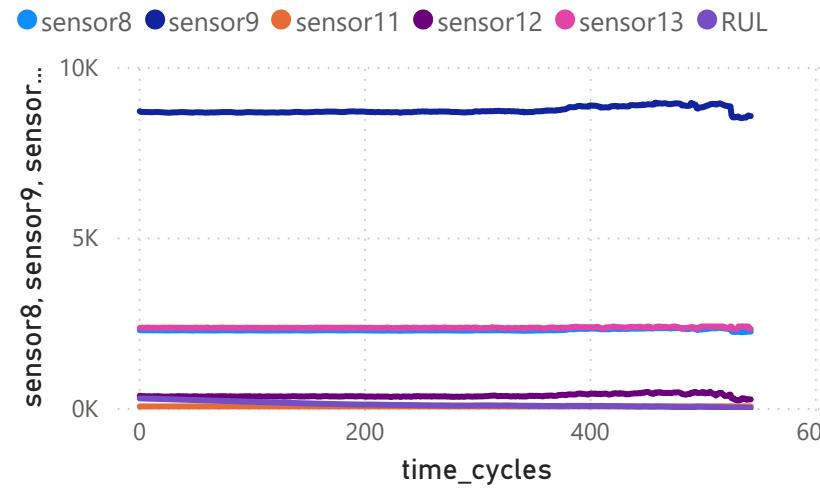
mean5: sensor14, sensor15, sensor17, sensor20, sensor21 and RUL by time_cycles



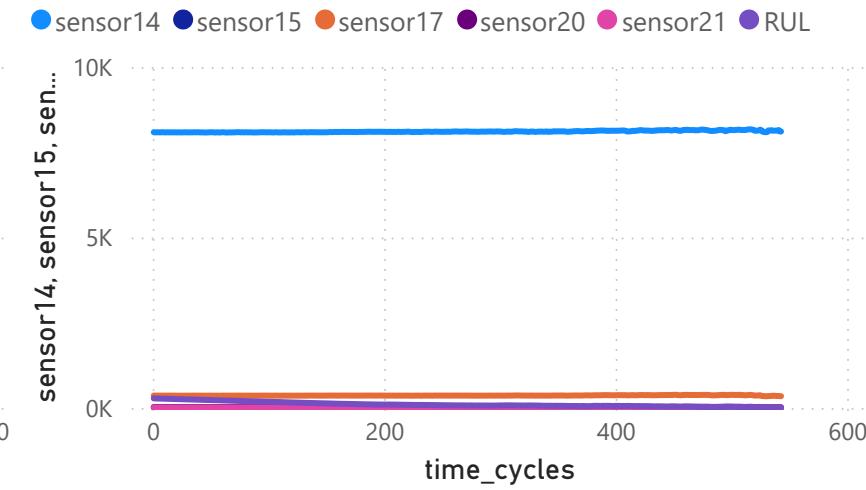
mean20: sensor2, sensor3, sensor4, sensor6, sensor7 and RUL by time_cycles



mean20: sensor8, sensor9, sensor11, sensor12, sensor13 and RUL by time_cycles

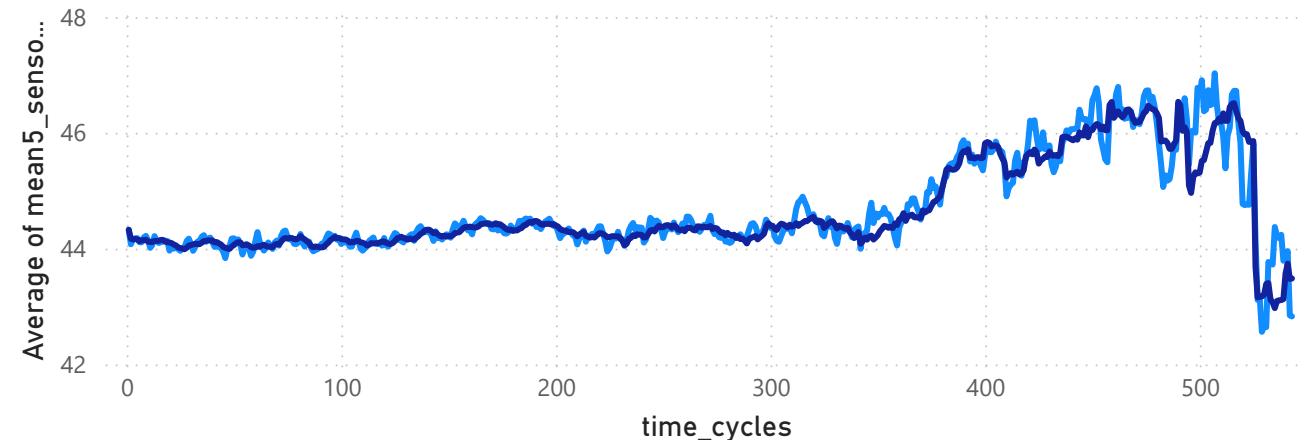


mean20: sensor14, sensor15, sensor17, sensor20, sensor21 and RUL by time_cycles



Average of mean5_sensor11 and Average of mean20_sensor11 by time_cycles

● Average of mean5_sensor11 ● Average of mean20_sensor11



Delta Mean (Sensor2) by time_cycles

