

## Turbofan Engine RUL Predictor (FD001)

Uploads → Engine details (Ensemble + LSTM) + Fleet overview.

Upload test file (.txt)

test\_FD001.txt 2.1 MB ↓

Engine #X: 3

Top-K critical engines: 10

Sensor to display: \$12

Run / Refresh

### Engine #3 – Details

Ensemble RUL: 54.89 cycles

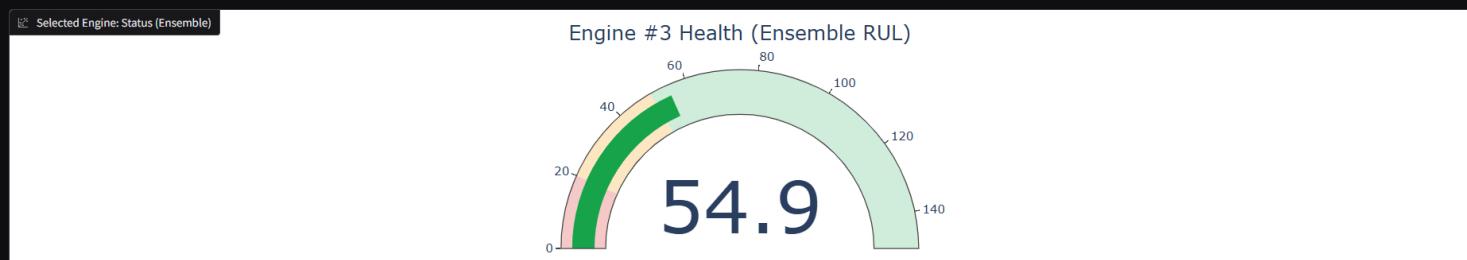
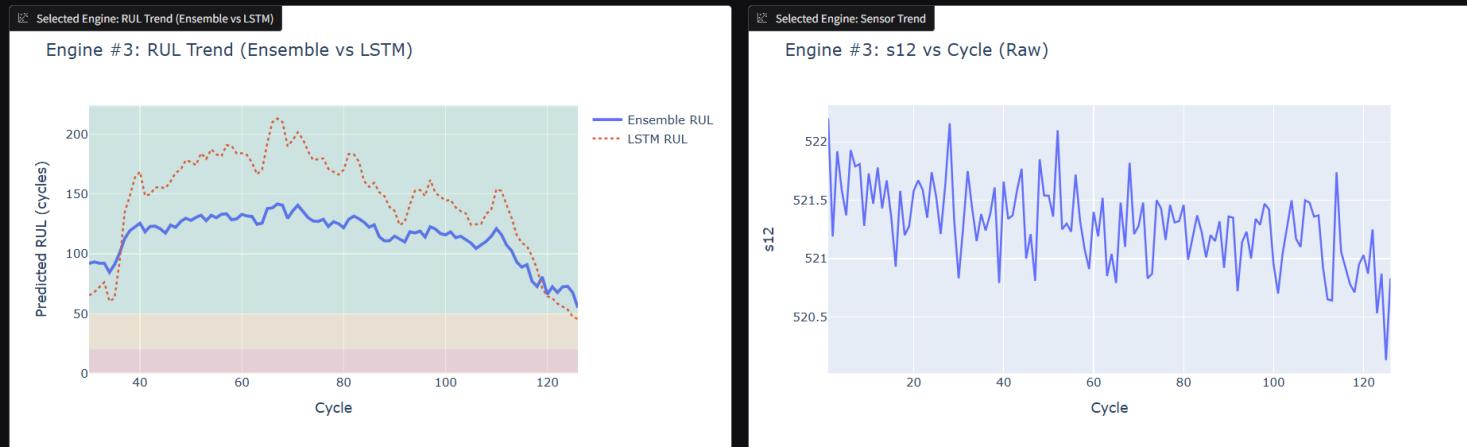
LSTM-only RUL: 45.40 cycles

Ensemble weight:  $w_{\text{LSTM}}=0.325$  (Ensemble =  $w_{\text{LSTM}} \cdot \text{LSTM} + (1-w_{\text{LSTM}}) \cdot \text{RF}$ )

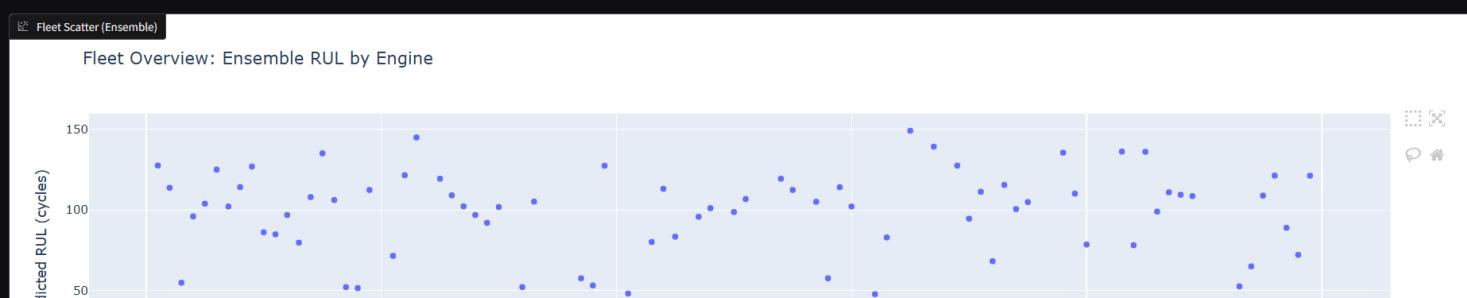
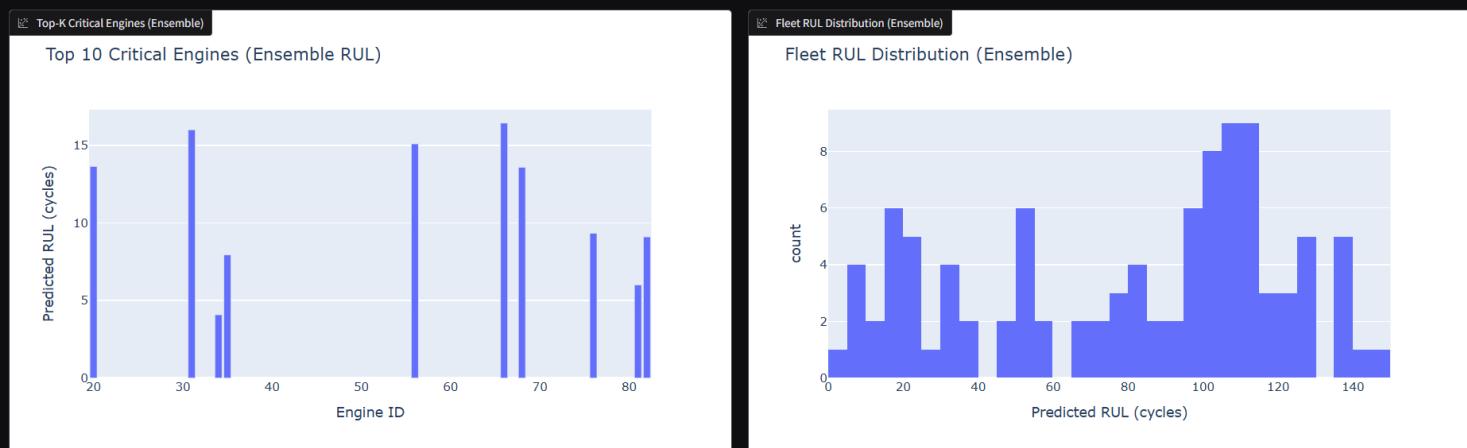
Status (based on Ensemble): GREEN

Action: Airworthy / OK

Cycles in uploaded file: 126



### Fleet overview (Ensemble)





Top-K Table

engine_id	RUL_ensemble	RUL_lstm
34	4.077499402369281	4.475404739379883
81	6.001252710236216	5.99191951751769
35	7.942414267470537	9.115106582641602
82	9.107852615754268	7.4892988204956055
76	9.338484080169266	10.645105361938477
68	13.595572661144024	8.516305923461914
20	13.652074334031337	15.437225341796875
56	15.108537936872942	14.56313705444336
31	16.01644664457693	10.902549743652344
66	16.448989850359624	15.090729713439941

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