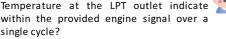


What does the observed change in the Total Temperature at the LPT outlet indicate



Well, the altitude is dropping steadily. What's interesting is that the engine is handling the reduced airflow demand really well, keeping its performance steady without putting any unnecessary strain on the system.

## Temporal Perception

Was the timing issue in the operation of the given engine signal in one cycle caused by efficiency or flow problems?

A: HPT efficiency Fault B: LPT efficiency Fault C: Fan efficiency Fault D: HPT flow Fault

F. I PT flow Fault F. Fan flow Fault

: HPT efficiency Fault

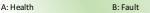
What is the potential health state of the given engine signal in one cycle?

A: Operating Normally

B: Abnormal Degradation C: Imminent Failure

A: Operating Normally

What is the health status of HPT of the given engine signal in one cycle?







Temporal Reasoning

C: 30%-50%

Given the time series signal, by erceiving the engine signal across 10 cycles to reflect performing different health states and temporal reasoning to predict the health decline trend, what is the probability range of engine failure?

B: 10%-30%

F: 70%-100%



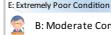
A: 1% -10%

F: 70%-100%

Given the time series signal, by perceiving the

different health states and performing temporal reasoning to predict the health decline trend, what is the qualitative condition of the engine? A: Good Condition B: Moderate Condition C: Poor Condition D: Bad Condition

engine signal across 10 cycles to reflect



**B: Moderate Condition** 



Cvcle 2 Cvcle 3 Cycle 10

Cvcle 1

Temporal Decision-Making In light of the engine signal data collected

across 10 cycles, what specific actions should ••• be undertaken to address the observed issues?

to operate safely and efficiently.

Necessary repairs or replacement of affected Fan and LPC component must be made as soon as possible to ensure that the engine continues