

CASE STUDY

GE LM2500 – AGB Failure

Background

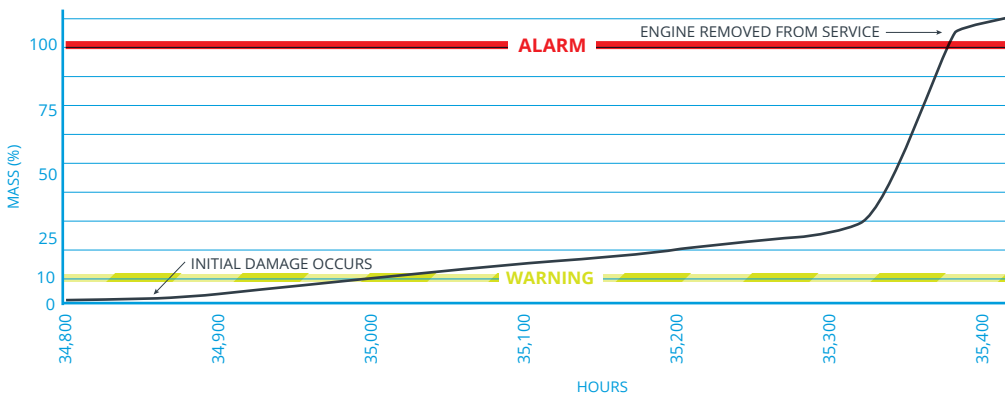
Debris began to be detected on the AGB sump of a LM2500 operating at a COGEN facility.

Event Description

The MetalSCAN warning limit was reached two weeks after the AGB sump debris counts began to rise. A slow progression of debris counts continued for two more weeks before the debris detection rate increased sharply, quickly reaching the alarm limit. The engine was stopped and the Depot replaced the AGB module in-situ for a brief outage before the engine was restarted. The Depot teardown revealed a starter shaft bearing failure. The AGB was easily repaired within two weeks and returned to the customer. There were no chip detector, temperature, or vibration abnormalities indicated.

Time History of Events

ENGINE WAS RUNNING CONTINUOUSLY THROUGHOUT THIS PERIOD



Damaged Bearing

Benefits

- ✓ Only last four weeks shown
- ✓ Engine ran for ~34,800 hours with virtually no debris detected
- ✓ 500 hour planning period provided
- ✓ AGB module isolated as point of failure
- ✓ AGB module replaced in-situ, minimizing damage and cost
- ✓ Secondary damage avoided

LONG LIVE EQUIPMENT



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