

## GE LM2500 – Seal Failure

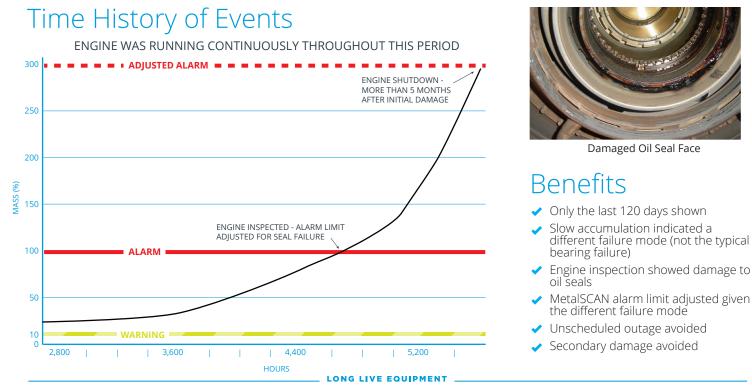
## Background

MetalSCAN was installed on a GE LM2500 Gas Turbine used for offshore gas production and ran for three months without incident.

## **Event Description**

MetalSCAN began to detect particle counts on the C-Sump sensor and crossed the Warning Limit. The Alarm Limit was crossed 73 days later and the count rate continued to increase at a slopw rate, atypical of a bearing failure. The customer adjusted the alarm limits for an oil seal failure, and the engine continued to run for an additional 35 days before shutdown. The engine was inspected and the rotational and stationary oil seals on No. 5 bearing were found to be failing, there was no damage to the bearings.

There were no changes to any other engine readings; vibration levels, oil temperature, or filter differential pressure.





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