MetalSCAN™ ONLY BY GASTOPS

gastops LONG LIVE EQUIPMENT

CASE STORY

Senvion MM92 2MW Wind Turbine (08008)

Background

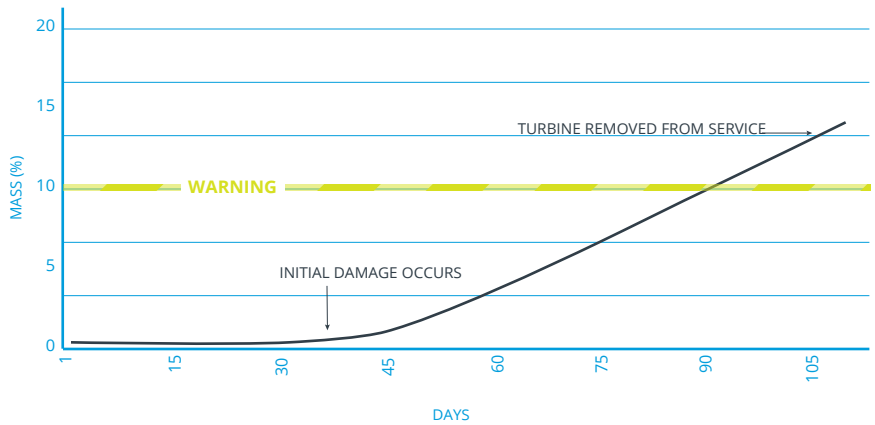
Wind turbine was operating for six months prior to the installation of MetalSCAN. Once MetalSCAN was installed, operation continued for one month without incident.

Event Description

One month after installation, MetalSCAN detected debris increases and the cumulative counts crossed the warning limit (10% of the alarm limit) triggering a videoscope inspection. The high rate of accumlulation suggested the possibility of high-speed bearing damage. The videoscope inspection confirmed damage to the inner race of the high-speed bearing. As a result, the wind turbine was stopped and the high-speed bearing was replaced uptower. The wind turbine was restarted and the MetalSCAN trend indicated a healthy gearbox.

Time History of Events

TURBINE WAS RUNNING CONTINUOUSLY THROUGHOUT THIS PERIOD



ONLY TIME SINCE METALSCAN INSTALLATION SHOWN

Damaged High - Speed Bearing

BENEFITS

- MetalSCAN trend enabled maintainers to repair damaged bearing uptower
- Secondary damage avoided

LONG LIVE EQUIPMENT

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