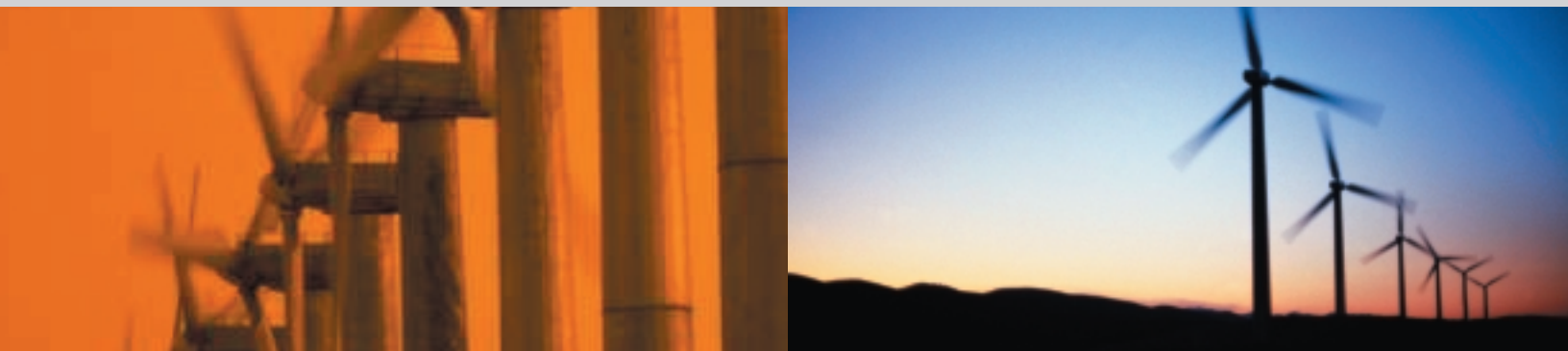


MetalSCAN
On-Line Oil Debris Monitor

Extra
sensory
protection

GASTOPS



“A MUST HAVE” FOR WIND TURBINE OPERATORS FACED WITH HIGHER OPERATING COSTS AND DEMAND FOR INCREASED PRODUCTION.

Although the reliability claims for modern equipment may be high and the potential for equipment bearing and gear failure may be low, catastrophic failures still do occur and at a very high cost to the operator. MetalSCAN is the reliable on-line condition monitoring technology that can help reduce operating costs by removing the likelihood of equipment gear and bearing failures leading to expensive secondary damage and extended outages.

Originally developed for the world’s most advanced aircraft engines, MetalSCAN is now available for application to virtually any pressure lubrication machinery system, including the wind turbine gearbox. MetalSCAN is designed to detect and quantify metallic particles in the oil system, which are tell tale signs of damage hidden deep within the gearbox. Able to detect early damage long before vibration monitors or oil analysis, MetalSCAN’s quantitative debris measurement correlates directly with the degree of damage on the bearing or gear and is an effective indicator for triggering maintenance alerts months before there is a risk of total failure of the gearbox.

MetalSCAN’s patented full flow, on-line oil debris detection technology is able to detect non-ferrous as well as ferrous metal particles. This capability can identify specific component failure modes not detectable through ferrous metal alone. MetalSCAN empowers operators to plan their maintenance actions, and to notify maintenance teams and facilities, long before the wind turbine needs to be shut down. The cost savings for planning the maintenance versus having to react to an unexpected failure are substantial... often the annual operating budget for the wind turbine. The business case is that simple.

GasTOPS is the industry leader in oil debris monitors with the experience of thousands of applications and millions of hours of operational experience to draw from. Our engineering staff is skilled at equipment application design including the development of bearing and gear system condition indicators. They are ready to assist you in applying MetalSCAN to your wind turbine.

When profitability depends on equipment availability.

- Proven to provide the earliest reliable detection of component damage
- Monitor damage progression and estimate remaining life
- Avoid equipment secondary damage
- Avoid unplanned outages

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