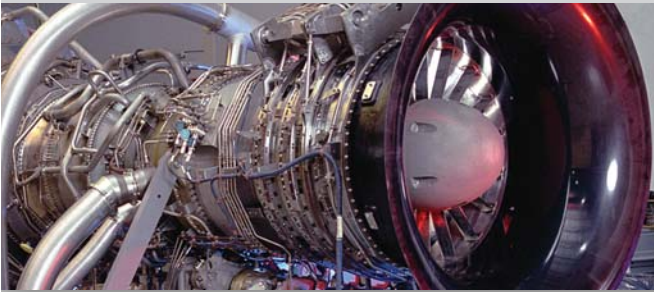


**MetalSCAN**  
On-Line Oil Debris Monitor

# Extra sensory protection

**GASTOPS**



EQUIPMENT OPERATORS ARE CONSTANTLY FACED WITH INCREASING COMPETITION, HIGHER OPERATING COSTS AND DEMAND for increased production. Even though the reliability of modern equipment is often extremely high and the potential for equipment bearing and gear failure is relatively low, catastrophic failures still do occur; and at very high cost to the operator.

MetalSCAN is a break-through on-line sensor technology that can help reduce operating costs by removing the likelihood of equipment suffering a bearing or gear system failure leading to expensive secondary damage and extended unplanned outages.



Originally developed for the world's most advanced aircraft engines, MetalSCAN is now available for application to virtually any pressure lubrication machinery system. MetalSCAN is designed to detect and quantify metallic particles in the oil system that are tell tale signs of damage hidden deep within the machine. 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 10's or even 100's of hours before the equipment has to be taken out of service.

MetalSCAN is unique in the marketplace as the only full flow, on-line oil debris monitor able to detect non-ferrous as well as ferrous metal particles. This capability can help identify specific component damage within the equipment, providing even more diagnostic detection capability.

MetalSCAN notifies operators and maintainers long before the equipment needs to be shut down and enables them to plan the corrective maintenance actions in the most cost effective way. The cost savings for planning the maintenance versus having to react to an unexpected failure can be hundreds of thousands to millions of dollars. The business case is that simple.

GasTOPS is the industry leader in oil debris monitors with the experience of thousands of applications 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 equipment.

When **profitability**  
depends on engine  
**availability.**

- Provides early damage detection 100's of hours before equipment failure
- Avoid unplanned engine shutdowns
- Avoid costly secondary damage
- Reduce operations and maintenance costs
- Plan maintenance action days or weeks before outage

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