Real-time, in-flight damage detection. Designed for the Sea King engine, the MetalSCAN on-line oil debris sensor is integrated into the engine lubrication system.

Application

MetalSCAN MS2000 is the proven industry-leading, real-time, on-line bearing and gear condition indication for aircraft propulsion systems.

First applied to USAF F-22 Raptor fifth generation stealth tactical, MetalSCAN has become the preferred solution for Prognostics and Health Monitoring (PHM) for military aircraft engines and gearboxes, including the F-22 Raptor, F-35 Lightning II, Eurofighter Typhoon multirole fighter and S-61 Sea King helicopter. In each case MetalSCAN is a key technology for enabling the application of effective in-flight protection and Condition Based Maintenance (CBM) for critical propulsion and drive-train components.

The Sea King main transmission is driven by twin T58 engines produced by GE. The engine can be fitted with a MetalSCAN MS2000 oil debris sensor to monitor the entire suite of bearings and gears within the engine. The MetalSCAN sensor mounts to the engine compartment deck in the oil line before the oil filter. Signal conditioning, which is simplified into one count signal for all sizes of ferromagnetic and non-ferromagnetic particles, is integrated into the sensor body and a standalone alarm module is mounted to the airframe with maintainer and pilot indication output.

CONTACT US

North America: 1 800 363 8658
Worldwide: +1 613 744 3530
sales@gastops.com

gastops.com