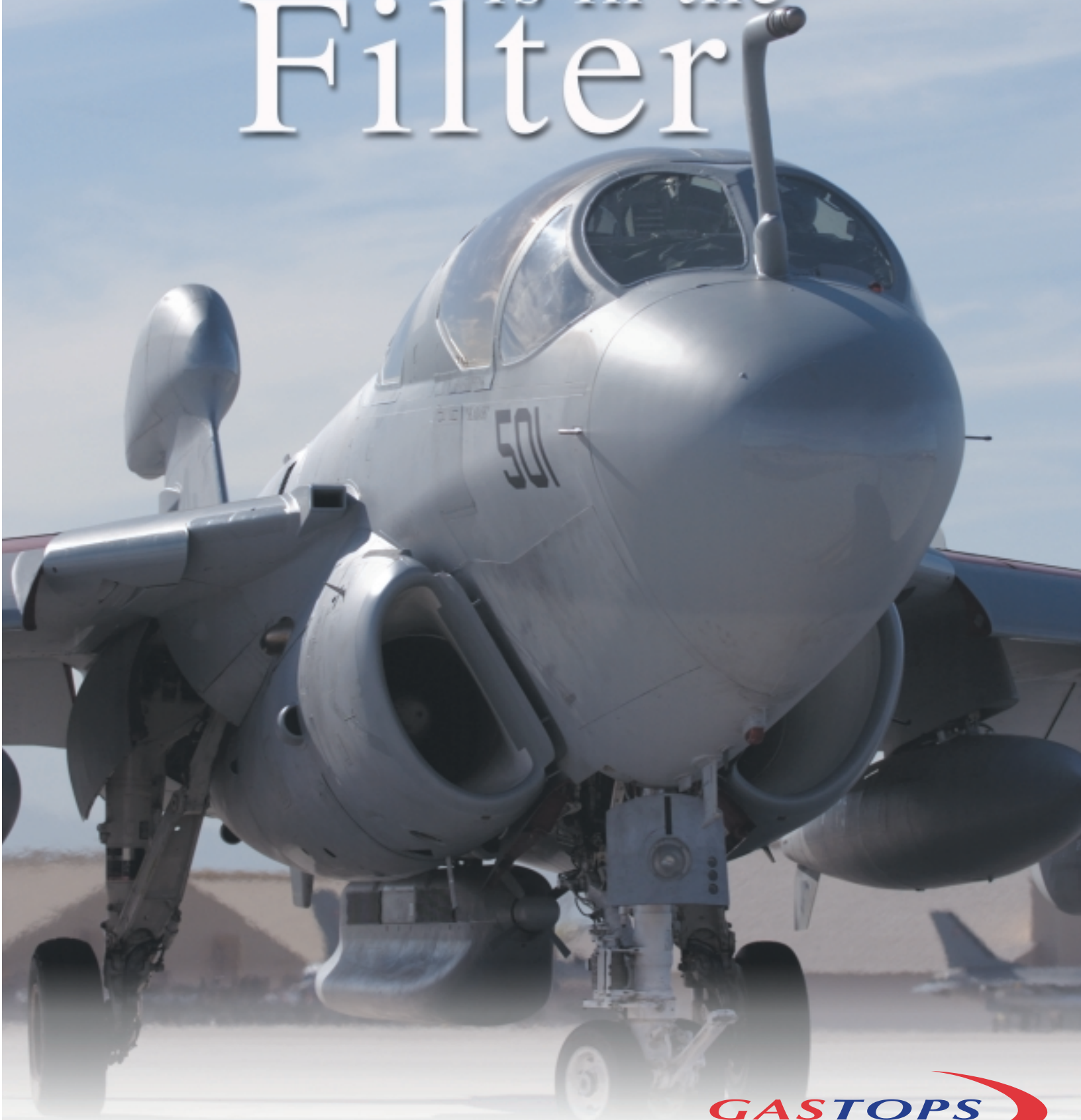


FilterCHECK
At-Line Filter Debris Analysis

The Answer is in the Filter



GASTOPS



AS MECHANICAL COMPONENTS BEGIN TO FAIL, THEY RELEASE METALLIC DEBRIS INTO THEIR LUBRICATING OIL SYSTEMS.

Conventional methods of failure detection such as chip detectors or sampled oil analysis are often not able to identify reliably component damage and provide timely on-site decision support. However, there is a solution... the lube system filter is designed to capture damage debris, and by analysing this debris on-site, a quick and effective indication of impending failure can be obtained.

FilterCHECK is a unique product that automatically flushes lube filters, quantifies the amount and size of metallic debris in the filter and provides an analysis of the debris metallurgy. FilterCHECK is designed to military standards for use at all maintenance activity levels, from the oil lab to deployed operating units. Results of the filter debris analysis can be obtained within minutes of filter removal, allowing for immediate operational decision support and enhanced mission availability.

FilterCHECK is easy to use and virtually maintenance free. The operator simply places the filter in the wash housing and presses the Start button. FilterCHECK's patented backwashing technique uses pulses of compressed air to dislodge wear metal particles from the filter element. A steady flow of wash fluid then carries away these particles for quantification, collection, and analysis. Extensive testing by independent

laboratories has demonstrated that FilterCHECK can reliably remove over 95 per cent of the particles contained in filters commonly used for aircraft lubrication systems.

The filter backwash drains through GasTOPS' patented on-line MetalSCAN debris sensor, which automatically counts and sizes both ferromagnetic and non-ferromagnetic damage particles. This is the same proven technology currently in use on advanced aircraft such as the F/A-22 Raptor, F-35 Joint Strike Fighter and Eurofighter Typhoon.

An automatic patch maker creates a debris sample which is analyzed by an Energy Dispersive X-Ray Fluorescence (EDXRF) module to determine the metallurgy of the captured debris. When the filter wash cycle is completed, the accumulated particle count data and EDXRF elemental analysis data can be downloaded via a serial communication link to a PC for data logging and trending.

For immediate
on-site detection of
impending failures
using filter debris analysis.

- Automated Filter Debris Removal
- Quantification of Metallic Debris
- Analysis of Debris Metallurgy
- Rapid Identification of Component Damage

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