



# **AVIATION SERVICES**

**SGS**

# SGS HERGUTH LABORATORIES OFFERS DECADES OF EXPERIENCE AND INNOVATION

If a machine contains oil, grease or operates with fuel, SGS Herguth is involved with testing and inspection somewhere on the globe. With 28 oil condition monitoring laboratories around the world, we are the leaders in the industry.

In machinery, the beginnings of breakdown occur hundreds of operating hours before the breakdown itself. When components are misaligned, out of balance, or running with dirty or inadequate lubricant, minute particles of metal are generated as the moving parts start to be in contact.

Engine oil analysis will detect these microscopic wear particles long before your equipment starts to vibrate, heat up, or show observable signs of wear. Analysis also evaluates the oils ability to seal, cool, clean and lubricate, as well as detect contamination by water, coolant, other fluids or particles.

Typical engine oil testing will include:

- Viscosity at 100 degrees C
- Neutralization number. (TAN) using ASTM D664 or SAE 5088A method
- Full elements/metals
- Water content by Karl Fisher

Additional analysis such as the following can be performed:

- Particle counts
- Fuel Dilution
- Flashpoint by COC or PMCC
- Solid Contamination

Along with oil analysis SGS Herguth can

test:

- Aviation hydraulic fluids
- Greases
- Fuels

SGS Herguth has maintained a very high level of quality assurance programs to protect your interests. These programs are kept up to date by internal audits and external audits provided by third party vendors.

## QUALITY ASSURANCE CERTIFICATIONS

- ISO/IEC 17025 - Testing and Calibration Laboratories
- ISO 9001 – Quality Management Standard
- 10CFR50 Appendix “B” – Quality Assurance for Nuclear Power Plants
- ASTM - Test Procedures
- Radioactive Materials - Handling License
- ANSI - Nuclear Quality Assurance
- MIL - Q9858A Military Quality Program

## DEGREEED AND CERTIFIED STAFF

- Chemists
- Mechanical Engineers
- Chemical Engineers
- STLE Certified Lubrication Specialists

## ADVANCED TESTING, FAILURE ANALYSIS AND CONSULTING

Unlike other oil analysis laboratories, SGS Herguth is the single source for all of your testing and analysis needs.

Hundreds of companies rely on our in-depth testing and research capabilities. Identifying the fundamental source of lubrication related problems quickly and accurately saves our clients millions of dollars in needless downtime and

expenses.

- Lubrication Performance and Compatability Studies
- Filter Debris and Deposit Characterizations
- Tribology Studies
- Root Cause Failure Analysis

For more information please visit our website at [www.sgs.com/oilconditionmonitoring](http://www.sgs.com/oilconditionmonitoring).

For all of your global inspection needs, please visit us at [www.sgs.com](http://www.sgs.com).

SGS is the world's leading inspection, verification, testing and certification company. Recognized as the global benchmark for quality and integrity, we employ over 80 000 people and operate a network of more than 1 650 offices and laboratories around the world.

## SGS NORTH AMERICA INC.

### OIL, GAS AND CHEMICALS SERVICES

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