



Aircraft Fluid Monitoring

Flying is not only about the laws of physics but also about the right chemistry. Aircraft Fluid Monitoring is an integral part of our laboratory team in Frankfurt for the monitoring and testing of aircraft fluids as demanded by aircraft manufacturers.

Ensuring an aircraft is always ready for operation requires extensive support, not only for the engines or landing gear but also for the fluids that keep them running. Aircraft Fluid Monitoring in Lufthansa Technik's laboratory team in Frankfurt specializes in fast, reliable and customer-specific analysis and quality control.

Our investigations help our customer identify physical and chemical properties of aircraft fluids as well as a possible contamination with non-system fluids or particles. Specific monitoring programs enable the customer to optimize fluid and filter change intervals to prevent filter clogging, O-Ring hardening or other undesirable effects. Our Hydraulic Fluid Sample Kit supports a clean and efficient sample taking of hydraulic fluids.

MRO Laboratory Services are the perfect solution to conveniently complete all services at once.

Benefits

Tailored maintenance solutions

Everything from a single source

Analytical testing of all aviation materials and substances

Quick, simple and reliable processes

Comprehensive in-house capabilities

Fast and easy accessibility through a large MRO network



Lufthansa Technik

Every fluid tested in detail

Our services include a wide range of tests.

Hydraulic fluid

Hydraulic fluid test suite	We check: <ul style="list-style-type: none">■ Appearance■ Acid number (TAN)■ Viscosity■ Density	<ul style="list-style-type: none">■ Water content (Karl Fischer)■ Conductivity■ Particle contamination■ Chlorine content
Incl. hydraulic fluid sample kit	Kit with: <ul style="list-style-type: none">■ 3 low particulate sample bottles■ 3 sampling tubes (Airbus system)	<ul style="list-style-type: none">■ 1 graduated waste bottle■ 1 return package

Engine oil

Engine oil test suite	We check: <ul style="list-style-type: none">■ Appearance■ Elemental analysis (SOAP)■ Viscosity	<ul style="list-style-type: none">■ Density■ Water content (Karl Fischer)■ Particle filtration
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Fuel

MicrobMonitor ²	Test procedure by ECHA Microbiology Ltd. for microbes in jet fuel recommended by IATA.
HyLITE2	Rapid detection of microbiological contamination
Contamination analysis	Identification of contaminants in lubricants and jet fuel
MCD and filter residues	Energy-dispersive X-ray spectroscopy analysis of particles / chips (REM / EDX)
Fuel filter analysis	Identification of contaminants and superabsorbent polymers (SAP) in fuel filters by visual methods. If required compositional analysis of up to three metal and non-metal particles.
Lufthansa Technik fuel filter residue analysis	<p>Comprehensive identification of contaminants in fuel filters for root cause analysis and fuel system evaluation. Individual work scope according to client requirements, e.g.:</p> <ul style="list-style-type: none">■ Metal and non-metal particles■ Superabsorbent polymers (SAP)■ Microbial contamination by cultivation■ Microbial contamination by ATP or DNA PCR identification■ Evaluation of filter bowl fuel, etc.

Potable water

Potable water management	Coordination, monitoring, scheduling and documentation, including potable water sampling and analysis in accordance with German federal law (TrinkwV)
Potable water test suite	Potable water sampling and microbiological analysis in accordance with German federal law (TrinkwV) from aircraft and ground equipment in cooperation with accredited laboratories

If your task or aircraft fluid is not listed, please contact our laboratory team. Together we will identify a customized analysis suite that meets your specific requirements.

Contact

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