

OIL ANALYSIS SERVICE

Diagnose oil condition to prevent system failure



Hydraulic oil in a system performs many functions; it transmits power, lubricates, protects against wear, transfers heat; and it also transports debris. Over time the oil will start to degrade. The rate at which it degrades is dependent on many factors including oil temperature, size of reservoir, oil cycling and cleanliness levels.

Moog Oil Analysis Service is a tool to help you detect the health of both your machinery and its lubricants, indicating potential problems months before they would be picked up from other techniques such as vibration monitoring or thermography. By regularly taking an oil sample you obtain a detailed report and recommendation on the state of your equipment and the condition of your oil.

MOOG OIL ANALYSIS SERVICE PROVIDES MONEY-SAVING BENEFITS

- Increase uptime as oil condition can be monitored over a long period, with each report indicating the current machine status and giving recommendations.
- Reduce lubricant costs as the oil condition can be monitored scientifically and lubricant changed when needed and not when the oil supplier recommends.
- Gain a more comprehensive overview of the machine status by monitoring 26 different metals.
- Extend the installed life of your Moog hydraulic products with regular oil condition monitoring that reduces service and repair costs.



ADVANTAGES

- Includes Moog technical support, providing you with key information about the specifications of your Moog hydraulic control products on the system and the type of action required to rectify any hydraulic failure.
- Simple to organise and prepaid: the price of the sample bottle includes the price of the service, but excludes delivery costs to the lab.
- Standard Service customers receive reports within 36 hours, and copies of the reports can be sent up to seven email addresses.
- Moog receives a copy of the report ensuring that when you call for advice, we already have your information.
- Customers requiring ongoing trend information or regular testing are invited to access our oil analysis web portal.
- Reports are easy to read and provide a diagnosis, to help you make a decision about your next steps.
- Quick Start Packs are available, making it quick and easy to immediately obtain a sample and send for analysis.

MOOG OFFERS FOUR TYPES OF ANALYSIS

1. Standard for all types of oil
2. Turbine Check for Steam and Gas Turbine operators
3. Ferrographic to analyse metal surfaces to determine the condition of the lubricant and wear patterns.
4. Microscopic to analyse particles (such as those found in last chance filters).

If you have a specific analysis requirement, please contact us.



	Standard Service for Hydraulic Oil	Turbine Check	Ferrographic	Microscopic
Bottle Size Supplied	100 ml	1 Litre	Na	Na
Tests Undertaken	Viscosity at 40°C (Cst) – (based on IP71) ¹ Wear Metals and contamination (ppm) – (based on ASTM D5185) ¹ Appearance Water Content: Karl Fischer Method ¹ ISO cleanliness code (based on BS EN ISO 4406) ¹ Total Acid Number (based on IP139) ¹	As Standard Service for Hydraulic Oil plus the following methods: Foaming Sequence: ASTM D892 Rust Prevention Characteristics: IP 135 A & B Air Release: IP313 Oxidation Stability (RPVOT): ASTM D2272 Demulsibility at 54°C Varnish Potential: Ultra-Centrifuge Method and patch colourimetry Flash Point Closed Cup: ASTM D93 ¹	Microscopic Surface Examination	Microscopic Particle Examination
Analysis Packs Available	Quick Start Pack ² Oil Analysis Sample Kits ³	1 x 1 litre Bottles ⁴ 3 x 1 litre Bottles ⁴		

¹ Accredited to UKAS ISO17025

² Quick Start Pack Contains: 5 x 100 ml Sampling Bottles, Return Labels, Packaging, Sampling Instructions, Tubing, Tube Cutter, Vacuum Pump

³ Oil Analysis Sample Kits contain 10 x 100 ml Bottles, Return Labels and Packaging

⁴ Contains Sampling Bottle, Return Labels, Packaging

To start your Moog Oil Analysis Service and reap the benefits of predictive maintenance, please contact Moog Industrial Sales. Call +44 (0)1684 278369, or order online.

e-mail: Oiltest.uk@moog.com

www.moog.co.uk/oiltest

Moog Industrial Group
Ashchurch, Tewkesbury,
Glos. GL20 8NA
Tel: +44 (0) 1684 296600
Fax: +44 (0) 1684 296760

Moog is a registered trademark of Moog Inc. and its subsidiaries. All trademarks as indicated herein are the property of Moog Inc. and its subsidiaries.
©2011 Moog Inc. All rights reserved. All changes are reserved.

Oil Analysis Service
GKL/0111

This technical data is based on current available information and is subject to change at any time by Moog. Specifications for specific systems or applications may vary.



MOOG