



The advantage of knowledge

Asset Management

6Sigma Process Improvement

Maintenance Consultancy

Condition Monitoring

Vibration Analysis

Oil Analysis

Thermography

Electric Motor Testing

Laser Shaft Alignment

Machine Balancing

Energy Loss Surveys

Hand-Arm Vibration Surveys



Monition Ltd is the UK Official Distributor for Fixtur Laser AB Laser Alignment Equipment

Your critical plant can tell you when it needs attention



Monition's *Managed Oil Services* enable you to listen:

- Fast, 3 – day turnaround of sample processing.
- **Modern laboratories utilising the most advanced spectrographic and ISO coding technology available in industry today.**
- Identify & prevent critical plant failures - renew components where & when necessary, rather than routinely.
- **Reduction in unscheduled downtime.**
- Target & schedule maintenance precisely and efficiently.
- **Maximise component, filtration & lubrication lifetimes – through a proactive rather than reactive maintenance strategy.**
- Extend service intervals – Benefit your maintenance cost saving through reduced maintenance costs.
- **Clear, detailed reports build into a comprehensive historical trend analysis of mechanical operating efficiency & productivity.**
- Reports can be designed to reflect customer information requirements - whatever level of technical data required, Monition can supply.
- **The highest standards of service and quality - BS EN ISO 9001:2000 Quality Assurance.**
- A fully managed, on-site sampling service can be provided by Monition engineers.
- **Fully independent service.**
- Technical support services available both online and over the phone, connecting you with the experts in the field of oil analysis.
- **One-off sample analysis & multiple batches running into hundreds of samples can be processed.**

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Superior analysis, focused support,
practical information

Oil Analysis

With **Monition's Oil Analysis Service** you command the information to prevent the 'sudden' mechanical breakdowns caused by progressive internal component wear.

Conducted at Monition's laboratory, our Oil Analysis service identifies: -

- Exactly which internal components are wearing out – and predicts the rate of failure based on the amounts of component debris present in the oil.
- If oil has become contaminated with dirt or water and requires flushing/replacing to prevent damage to components
- If the chemical properties of the lubricant have degraded and the oil is no longer protecting the machine.

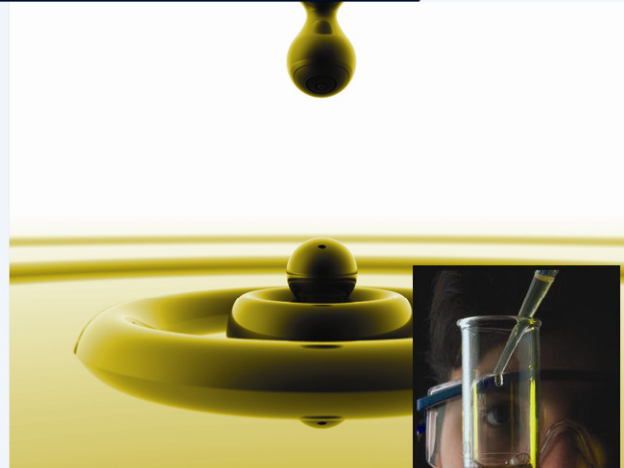
No Hassle Oil Analysis

- 1) Straightforward cost-per-sample for gear/compressor and hydraulic oils.
- 2) We post the oil sampling kits to you.
- 3) You take the oil samples and return them in the **FREEPOST** envelope provided.
- 4) Our laboratory analyses the sample and emails the report directly to you.
- 5) You use the information to perform preventative maintenance if & when required.

Comprehensive Laboratory Testing Process includes: -

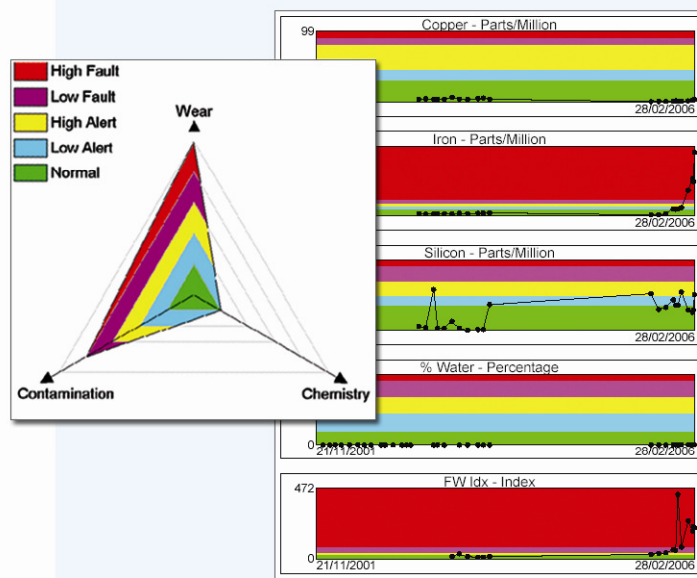
- ICP - Elemental Analysis
- Viscosity (Kinematic viscosity at 40°C 60°C and/or 100 °C)
- FW (Ferrous Wear Index)
- Water Content
- TIM (Total Insoluble Matter) Soot
- Dielectric analysis of Chemical Index and Contamination
- TAN (Total Acid Number)
- TBN (Total Base Number)
- Infra-red

Monition's Oil Analysis Service
- the professional's choice for increasing plant reliability & reducing maintenance costs.



FOCUSED REPORTING

Clear, customer-focused reporting provides you with the information you need to make the important maintenance decisions on the ground. Comprehensive laboratory testing & expert analysis combine to deliver a clear, Plain-English report of machine condition with recommendations & justification for corrective action where necessary. Choose the reporting method to match your needs – PDF, PDF web host and oil data viewer or Intelloil (advanced oil diagnostics)



- **Increase plant reliability** – achieve greater machine uptime for increased production availability.
- **Eliminate breakdowns** – by scheduling maintenance to replace faulty components before they lead to a catastrophic failure.
- **Reduce maintenance costs** – by eliminating firefighting maintenance.
- **Prolong lubricant life** – replace oil when necessary rather than by routine.
- **Extend machine lifetimes** – condition-based maintenance helps keep your production assets in top mechanical condition.



Oil Analysis - the advanced diagnostic and prognostic tool for precise condition monitoring of plant and machinery.

High cost-efficiency, immediate troubleshooting capabilities & long-term productivity improvement – Oil Analysis is the condition monitoring technology of choice for modern industrial maintenance.

Oil Analysis (Tribology) – An Overview

Small samples of used oil can reveal an incredible wealth of information regarding the health and condition of both the machine and the lubricant that is in use to protect its components. Managed Oil Services can analyse the lubricants from your operating plant, returning concise information:

- Summarising the wear state of your equipment
- Detailing oil condition & fitness for continued engine protection
- Offering recommendation in the event that corrective maintenance is deemed necessary to prevent expensive, unscheduled downtime.

Using various methods of lubricant and debris analysis, a detailed picture of water and contamination causes can be identified and trended over time to allow early response to potential failures.

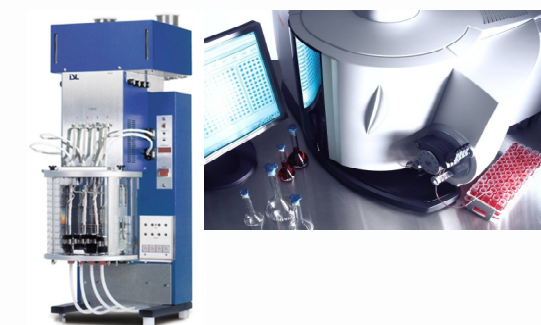
Oil analysis provides precise information concerning both the health of machinery components and the effectiveness of current lubrication protection:-

- Oil analysis will detect the ingress of dirt, water or other contaminants into machinery – providing a warning when oil effectiveness is compromised.
- All machinery produces microscopic wear particles through normal, everyday operation. Regular analysis identifies accelerated wear early – i.e. when a component begins to deteriorate – allowing preventative action to be scheduled before a failure occurs.
- The chemical balance of lubricants and additive packages is critical & many factors can contribute to oil wearing out' prematurely. Tribology monitors oil chemistry to warn when lubrication and additive packages are approaching the end of its operational life.

Ineffective lubrication is the single biggest cause of machinery failures – Oil Analysis provides the 'window' into understanding and controlling the quality of lubrication within your machinery.

Monition's Managed Oil Services can meet all your oil analysis requirements:

- Planning, implementation & management of new oil programmes.
- Review / appraisal of existing oil programmes.
- Oil sampling service with fully trained engineers.
- Consultancy services for any of your condition monitoring & maintenance programme needs.



Monition's Managed Oil Services is a totally independent service. We offer a comprehensive suite of analysis & testing at our fully equipped laboratory.

However ambitious or modest your oil analysis requirements: from one-off, diagnostic analysis of suspect plant and lubricants to a fully managed, out-sourced lubrication programme for your entire plant - Monition's Managed Oil Services can tailor a support package to exactly match your requirements.

Whether you need a service provider operating to the highest quality standards, or an industry partner to fit into your maintenance operations framework, Monition Ltd will assist you to achieve:

- increased plant reliability
- increased productivity
- increased maintenance cost-efficiency

BS EN ISO
9001:2000
Quality
Assurance

