Oil Analysis Sampling Kit

Extend asset life through managed lubrication

Oil analysis is an excellent indicator of issues developing within a mechanical system. The RS PRO Oil Sampling Analysis Kits allow you to take samples and return at your own convenience.

uk.rs-online.com
The challenge

Lubrication is one of the most fundamentally important factors in the upkeep of your critical assets; whether it’s ensuring your gears aren’t grinding, or making sure your hydraulic systems are spotless, its importance cannot be overstated. Every time the cleanliness of an oil improves, the expected lifespan of the equipment effectively improves with it.

Whether recurrent machinery faults, excessive lubricant usage or excessive downtime are the issue, trending oil condition can be a powerful tool.

10:1
Expected ROI for a best-in-class oil analysis programme

63%
of bearings fail because of lubrication-related issues

70%
of industrial equipment failures are caused by poor or inadequate lubrication

The solution

A single, detailed analysis of an oil sample can be a valuable preventative maintenance tool, but it comes into its own as part of an ongoing program. Trending wear, contamination and lubricant chemistry provide insight into potential problems before they escalate to a more serious issue.

The self-serve RS PRO Oil Analysis Sampling Kit (article 221-4799) provides everything you need to collect in service oil samples and return to our laboratory, including full analysis by our team of ICML certified chemists and full reporting returned to you via email.

Standard Tests include:
- Visual Inspection: Visually review colour, haziness, suspended solids and layering.
- Elemental Analysis by ICP-OES: Spectral analysis to determine wear metals, additives and more.
- Kinematic Viscosity at 40°C: Identify grade mismatches and lubrication degradation.
- AN (Acid Number): Determines acidity and oxidation.
- Water Content: Assess degree of moisture ingress.
- Ferrous Debris (PQ): Gives an overview of iron-based content.
- Particle Count (ISO4406): Cleanliness of the oil (hydraulic systems only).
How it works

- Oil samples are collected using one of our sampling kits, before labelling with component information and returning to our Nottingham laboratory. Our sampling kits contain everything you need to collect up to 10 in-service oil samples.

- The samples are analysed against a pre-agreed test slate to determine lubricant condition and the presence of anomalies.

- A full report is then generated and emailed to you, with detail of the wear, chemistry and contamination status of your sample, with advised actions.

Wear
Clean, healthy, wear-free lubrication can lead to an exponential reduction in machine wear. Wear particles are a sure sign of an unhealthy machine. Correct detection and diagnosis assists in our customers taking the correct action regarding critical maintenance decisions.

Chemistry
An assessment of the health of the lubricant itself; telling you whether lubricant is fit for service or ready for replacement based on its current chemical makeup.

Contamination
Typically, ingress from the environment local to the component in question. For example, moisture, general dirt and product-related contaminants can all be a factor in necessary components wear and reduced lifespan.
The outcome

Analytical testing typically takes 2-3 working days from receipt of your samples in our Nottingham laboratory, with reports returned by email.

Clear Reporting
We provide a comprehensive, yet easy to read oil condition report with clear fault identification, graphical trending and clear diagnosis and actions.

Extended Scope
The lab can also test greases, coolants, fuels, transformer oils, metalworking fluids and more. We also have extended and investigative testing suites available.

1. Trended Analysis
Standard tests for metal and chemical contamination, oil viscosity and water content.

2. Alarm Radar and Commentary
Graphic representation allows visual review of status and commentary from lab will advise on best course of action.

3. Condition Based Oil Changes
Having laboratory confirmation of oil condition allows you to change your oil 'on condition', as opposed to changing on a 'time based' basis. This gets you value for money from your oil as you only need to change it when necessary.
Oil Analysis Sampling Kit

Discover the benefits of our pre-paid Oil Analysis Sampling Kits

- Understand oil condition
- ID problems before they occur
- Fewer repairs, less downtime
- Bolster precision maintenance
- Clear, concise reporting
- Lubricant cost savings

£300
Standard Box Price: Includes equipment for up to 10 oil analysis.*

Order today
1. Place your order
   Using product code 221-4799 through uk.rs-online.com
2. Receive Kit
   Oil Analysis Sampling Kit will be delivered to your premises
3. Extract your sample(s)
   Each box contains equipment for up to 10 sample analysis
4. Return your sample(s)
   In the envelope provided
5. Results to your inbox
   Results delivered electronically to you email within 3 working days*

*£30 per pre-paid analysis and nothing more to pay.

*3 working days after receipt of your sample submission to our lab