

# Oil analysis will extend the life of your machinery



Your lubricant is the lifeblood of your process and machinery — keep it clean!

Routine testing indicates when to change your lubricants.



**UltraSpec Analytical Service** is an in-house, production laboratory. We have a dedicated and knowledgeable staff to assist in answering your questions about lubricant testing and data interpretation. We provide timely results at very competitive prices.

## Why should I test my oil?

### Routine Maintenance:

Contamination by dirt, water, solvent or by-products of oxidation can lead to premature lubricant breakdown and equipment failure. Oxidation or breakdown of a lubricant can be manifested by a change in viscosity, increase in acid number, varnish and sludge build-up as well as depletion of the additive package.

### Quality Control:

The physical properties and elemental constituents that form the additive package in all lubricants must conform to a set of rigid specifications. Testing ensures that they meet the manufacturer's recommendations.

### Feasibility:

This aspect of service will evaluate the condition of your used oil against specific product specifications to generate a report for recommended treatment process, additive adjustment and quotation.



*Servicing the following industries since 1979*

**Metalworking Facilities • Lubricant Oil Suppliers • Heat Treaters • Injection Molders**

### Why choose UltraSpec Analytical Service?

The UltraSpec Analytical Service program is a natural extension of our core business — that of reclaiming industrial lubricants to like-new condition.

An important factor in the asset preservation of your oil is the determination of oil quality. Whether it's a process oil from a closed system or a metal-working fluid, routine maintenance evaluates these fluids and lubricants. Testing will assess the overall quality.

Whether you're a lubricant supplier looking to augment your quality control or an end-user, UltraSpec Analytical Service can help you assess the condition of your oil. Our testing of lubricants and petroleum-related products conforms to ASTM (American Society for Testing and Materials) standards.



### Typical products tested include:

- Rust Preventatives
- Cutting Oils
- Hydraulic Oils
- Gear & Way Lubes
- Quench Oils
- Ferrous & Non-ferrous Drawing Lubricants
- Synthetics & specialty products such as
  - Water Glycols
  - Polyol Esters

***We also offer R&D Consultation***  
**which includes product deformation, suggested performance or**  
**matching formulas, technical information and problem solving.**

### Typical tests offered by UltraSpec Analytical Service include:

- Viscosity/Viscosity Index
- XRF (X-ray Fluorescence) Spectroscopy  
*for determining additive content & "wear metals"*
- Neutralization Number  
*total Acid or strong Base number*
- RPVOT
- Particle Count *including ISO/NAS Code or*  
*Pall Cleanliness Code and distribution*
- Millipore/Filterability
- Flash point, C.O.C. (Cleveland Open Cup)
- Water by "Crackle Test" or distillation
- Saponification Number
- Cleveland Condensing Humidity Cabinet
- Copper Strip Corrosion Test
- Cooling Curves