

ISO 9000  
Since 1996



**CLARK**  
Laboratories, LLC

A Division of Clark Testing Group

## Clark Laboratories Condition Monitoring Services



Clark Labs Condition Monitoring Services Laboratory (CMS Lab) provides oil analysis and diagnostics to enhance maintenance programs. Our CMS Lab assists maintenance professionals in the early detection of equipment problems, and in predicting future machine reliability. The CMS Lab provides oil, water glycol, and grease analyses to help maximize machinery performance, extend oil change intervals, and minimize oil-related disruptions in production schedules.



Condition Monitoring Services



## Filter Debris Analysis

Used filters are opened and the accumulated debris is extracted and ferrographically analyzed. Diagnosis can determine the root cause of wear.

## Grease Analysis

Samples of grease are analyzed for degradation, contamination and wear debris. Maintenance recommendations are made to improve grease performance and machine reliability.

The CMS Lab assists clients in knowing when and how equipment is degrading through testing machine oil samples. By managing the lubricants in machinery, clients lower maintenance and lubricant costs, improve maintenance scheduling, and reduce parts inventory.

The CMS Lab tests samples from frontline equipment, as well as incoming lubricants for compliance to specifications and quality assurance. A team of highly skilled scientists and technicians, state-of-the-art instrumentation validated by computer controlled quality assurance, and a web-based Lab Information Management System provide accurate reporting and maintenance recommendations. The test reports generated by the CMS Lab are the most comprehensive and user-friendly in the industry. All testing is performed in accordance with ASTM or other standardized applicable methods.

## New Equipment

Our latest acquisition is a Brinkman Titrando configured for acid and base number testing. Clark Labs periodically upgrades either physical apparatus or its controlling software to provide the most accurate results to our customers.



## Testing Services

- Elemental additive depletion and wear analysis
- Lubricant characteristics evaluation
- Wear debris diagnostics
- Lubricant degradation testing
- Service life evaluations
- Quality assurance programs
- Recycled/reclaimed oil evaluations
- Diagnosis and maintenance recommendations

## Available Tests

- Acid Number (former TAN)
- Base Number (former TBN)
- Infrared organic Spectrometry (FTIR)
- Particle Cleanliness (ISO, SAE, or NAS Codes)
- pH of fluid sample
- Spectrometric Analysis (21 metals)
- Viscosity, Kinematic (40° C, 100° C, Visc, Index)
- Water by Karl Fischer Titration
- Wear Debris Analysis-Optical Ferrography (WDA)
- Wear Index-ferrous particle quantifier (WI)

## Test Packages

- Rolling Mills
- Turbines
- Gearboxes
- Blowers
- Chillers
- Motor Bearings
- Compressors
- Pumps
- Transmissions
- Diesel engines
- Hydraulics
- Differentials
- Conveyors