

# Turbine Oil Testing

## ROUTINE OIL ANALYSIS

Spectrometric Analysis  
Viscosity  
Acid Number  
Particle Count  
Karl Fischer Water

## CUSTOM TEST PACKAGES

We are able to prepare customized test packages to meet each customer's unique needs and goals.

## CUSTOMER SUPPORT

We are available to answer questions or concerns about your oil analysis results during regular business hours.

We understand urgent situations arise from time to time. R&G Labs is committed to providing the highest level of professional service and has opened the laboratory for testing after-hours and on weekends for our customers.



Steam and gas turbines are critical assets which rely on lubricants to perform optimally. Contaminated turbine oil systems can increase operational costs through energy inefficiency, extensive damage repair and unexpected downtime.

With monthly routine testing coupled with the full annual test package, you can confidently know the overall condition of your turbine and ensure your oil is suitable for continued use.

When abnormal lubricant conditions appear, or the beneficial oil properties start diminishing, we work closely with you to help determine the optimal frequency of testing to prevent future damage, unplanned downtime, or outages for repairs.

Using our full-service state of the art laboratory, we offer the broadest range of testing package options to provide comprehensive data and insights on the condition of your critical equipment. Our top-level analysis services assist in determining the operating condition of the turbine and lubricant health, can identify mechanical problems such as misalignment and bearing wear or possible sources of lubricant contamination. Our complete slate of turbine oil testing exceeds ASTM D4378 procedures for standard monitoring practice of in-service turbines.

Additionally, we offer advanced oil testing to assess your oil's tendency to form varnish.

## Typical Tests Performed

- Spectrometric Analysis
- Karl Fischer Water
- Viscosity
- Particle Count
- Acid Number
- Color
- Rust
- RPVOT
- Copper Strip
- Water Separability / Demulsibility
- Foam

## Optional Tests

- RULER
- Varnish Test by MPC
- Analytical Ferrography



**R&G Laboratories, Inc.**

Providing Excellence in Lubricant Analysis

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#### QUALITY PROGRAMS

ISO 17025

10 CFR 50 App. B

Participate in ASTM

Crosscheck

#### LAB PROCEDURES

ASTM Test Methods

#### EXPERIENCED STAFF

Our primary staff members have over 50 years of combined subject matter expertise and experience with oil testing.

#### SERVICES AVAILABLE

Routine Oil Analysis

Grease Analysis

Diesel Fuel Analysis

Filter Debris Analysis

Transformer Oil Analysis

Coolant Analysis

Expedited Testing Service

Specialty Oil Analysis

## Quality Testing at Affordable Prices



ASTM International, formerly known as the American Society for Testing and Materials (ASTM), helps ensure that oil analysis techniques are defined for standardization. The test standards we perform in our laboratory are based upon established ASTM standards and are considered voluntary consensus standards. Each standard has specific requirements that help ensure the materials and methods being utilized follow standard quality protocols.

Furthermore, we participate in the ASTM proficiency testing program. This statistical quality program enables our laboratory to continually improve our laboratory's performance assessing our testing methods and comparing ourselves with other laboratories from around the world.

Our quality program is based on the ISO 17025 quality management system and the 10 CFR 50 Appendix B quality assurance program for the nuclear power industry. This quality program, our participation in the ASTM proficiency program and utilization of ASTM methods, demonstrate our laboratory's professional and technical proficiency, our commitment to producing the highest quality, accurate and precise testing you can depend on from R&G Labs.

## R&G Labs Difference

We have extensive experience in testing oils from gas and steam turbine systems, along with EHC fluids. We are always available for our customers and have provided emergency numbers to reach us at any time to discuss their oil questions, oil testing results, and subsequent recommended actions. When called upon for emergency situations, we have opened the lab outside of standard business hours. Our staff is committed to our customer's effectiveness when monitoring the health and condition of equipment and lubricants in their facilities. We are here to help you with your oil questions, problems, and emergencies.

**We appreciate being the lubricant analysis laboratory of choice for our customers and remain dedicated to maintaining valuable personal relationships with each of the companies we serve.**

Contact us by phone at: +1 (866) 854-1177 or +1 (813) 643-3513 ext.1101, or by email at: [cheryl@randglabs.com](mailto:cheryl@randglabs.com) to discuss our capabilities.



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