ATTEND OUR TRAININGS

Presented at your plant, in your region, at our offices or online, our courses are taught by certified instructors who cover a broad range of information related to the products and services we offer. Our courses in oil analysis and lubrication are based on the training offered by our exclusive partner, Noria Corporation. They are designed and delivered in a way to help you prepare for the various ICML Certifications (International Council for Machinery Lubrication).

COURSE 1020 – OIL ANALYSIS
Acquire the knowledge to be able to read, understand and interpret oil analysis reports to maximize the return on investment of an oil analysis program.

COURSE 2001 – MACHINERY LUBRICATION 1
Acquire the fundamentals of lubrication in order to develop and apply best practices.

COURSE 2002 – MACHINERY LUBRICATION 2
Acquire advanced knowledge about the properties of lubricants and lubrication techniques to develop an effective lubrication program.

COURSE 4005 – LUBRICATION BASICS
Understand the basic principles and the importance of proper lubrication of mechanical equipment.

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Why Choose Us?

1. Advanced Investigations for sources of contamination, wear and oil degradation through a wide range of tests on the cutting edge of technology (FTIR, GOVOT, Ferrography, etc.).
2. Observations and Recommendations prepared by dedicated, competent and multidisciplinary personnel with in-depth knowledge of machinery and their operating environments.
3. ICML Certified (International Council for Machinery Lubrication) personnel responsible for providing observations and recommendations.
4. Personalized Service: customized reports to optimize time and investment in the program.
5. Ability to Integrate multiple predictive and proactive technologies into one application: AMS Machinery Manager™.
6. Oil Analysis service in less than 24 hours (for emergencies).
7. ISO 9001-2008 Certified laboratory and repeatability of results.
8. Years of Experience in Oil Analysis, but also in machinery lubrication (Noria™ franchise partner).
9. Expertise in Integrating predictive and proactive technologies (thermography, oil analysis, vibration alignment, balancing, ultrasonic, training, etc.).
10. Customer Service Quality: staff available at all times during office hours and 24/7 service.

Did You Know?

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- Breathers and Adapters
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>> MLA II Certification Preparation

COURSE 2001 – MACHINERY LUBRICATION 1
Acquire an introduction to machinery lubrication principles.

>> MLT I Certification Preparation

COURSE 2002 – MACHINERY LUBRICATION 2
Acquire advanced knowledge about the properties of lubricants and lubrication techniques to develop an effective lubrication program.

>> MLT II Certification Preparation

COURSE 4005 – LUBRICATION BASICS
Understand the basic principles and the importance of proper lubrication of mechanical equipment.

COURSE 2003 – MACHINERY LUBRICATION 3
Understand the properties of lubricants and lubrication techniques to develop an effective lubrication program.

Did You Know?

In addition to our wide range of courses in Reliability (vibration, thermography, ultrasound, efficient mechanical maintenance, reliability management, we also offer training in Instrumentation and Process Control Systems. For more information, visit the Training section of our website www.laurentide.com.

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Washington, District of Columbia
20004
T : 202 347-7777
F : 202 347-7776

OIL ANALYSIS

TO SERVE YOU BETTER

To ensure that each result can be interpreted properly by our experts, the values must be compared with those of the reference oil (free oil sample). For this reason, we offer every new oil sample free of charge.
The medical check-up of your equipment

Known as an essential tool of predictive maintenance, oil analysis can be compared to a blood test. It provides a global picture of the health of any industrial equipment.

In numbers:

- Up to $240,000 per year for its fleet of 4 electric shovels.
- Systems enabled an American iron ore mining company to save up to $240,000 per year for its fleet of 4 electric shovels.
- The installation of appropriate filtration systems enabled an American iron ore mining company to save up to $240,000 for its fleet of 4 electric shovels.

In numbers:

- Laurentide Controls’ oil analysis service combines all the results in one sample to isolate the three main vectors of information: chemistry, contamination and wear.
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Did you know?

- Water can visually be detected as free or in emulsion.
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- It is recommended to investigate excessive heat sources of the equipment, the presence of metal particles, as well as oil and air infiltrations. All of these sources are known as oxidation catalysts.

In accordance with the ASTM standardized methods, our laboratory provides the following tests:

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- OUR OTHER TESTS
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How Can We Help You?
We also provide the following tests:

OIL TYPE

In accordance with the ASTM standardized methods, our laboratory provides the following:

R = Recommended  O = Optional

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OUR OTHER TESTS
We also provide the following tests:

- Grease Analysis
- Cut-off Analysis
- Fiber Defect Analysis
- Material Identification Analysis

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### The Benefits of Oil Analysis

- **Diagnostic**: Enables early detection of potential issues before they become critical.
- **Cost Savings**: Helps in proactive maintenance, reducing unexpected downtime and repair costs.
- **Optimization**: Allows for the optimization of lubrication conditions, improving equipment longevity.
- **Environmental Impact**: Reduces the use of new lubricants, contributing to a more sustainable operation.

### Oil Analysis Techniques

- **Viscosity Measurement**: Measures the thickness of the oil, ensuring it interacts properly with moving parts.
- **Acid Number (AN)**: Measures the amount of carboxylic acids in the oil, indicating the extent of degradation.
- **Additive Analysis**: Evaluates the presence of various additives, ensuring they are effective and not depleted.
- **Water Content**: Measures the amount of water present, which can lead to corrosion and accelerated wear.
- **Spectroscopy**: Uses advanced light absorption techniques (FTIR) to identify contaminants and wear particles.

### Our Other Tests

- **Material Identification Analysis**: Identifies the composition of wear debris.
- **Fuel Analysis**: Analyzes the fuel for contaminants that can affect engine performance.
- **Rust Index**: Measures the rusting tendency of ferrous parts.
- **Foam Index**: Evaluates the tendency of an oil to retain entrained air, which can affect performance.

### Our Tests

<table>
<thead>
<tr>
<th>Test</th>
<th>Method</th>
<th>Gear</th>
<th>Hydraulic</th>
<th>In-Line</th>
<th>Turbine</th>
<th>Compressor</th>
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- An increase in the Acid Number (AN) generally indicates the beginning of oxidation.

**Tip**

An increase in the Acid Number (AN) generally indicates the beginning of oxidation. It is recommended to investigate excessive fuel sources of the equipment, the presence of metals, particles, as well as water and air inclusions. All of these sources are known as oxidation catalysts, and their presence can significantly impact the health of the oil and the equipment.

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**Conclusion**

By implementing a comprehensive oil analysis program, companies can achieve significant cost savings and improve the overall efficiency of their machinery. Regular analysis of lubricant samples is crucial for maintaining optimal equipment performance and prolonging the life of machinery.

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*Laurinide Controls*

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**A CLEAR DIAGNOSTIC**

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**Our Other Tests**

- **Wear Debris Analysis**: Microscopic observation to determine the morphology and quantity of wear and contaminant particles.
- **Flash Point**: Determines the temperature at which all oil vapors sufficiently to sustain a momentary open flame exposed to a flame.
- **APIS**: Evaluates the remaining life of the oil by measuring the oil’s ash content.
- **GSA**: Measures the total amount of iron on a scale of 0 to 100.
- **Alpha**: Measures the amount of iron in the oil.
- **Beta**: Determines the water separation and foaming stability of an oil.
- **Ruler**: Measures the remaining active oxygen in the oil’s additives.
- **Ft Index**: Evaluates the tendency of an oil to retain entrained air.
- **Foam Index**: Measures the tendency of an oil to retain entrained air.
- **Water**: Measures the water separation and foaming stability of an oil.
- **Rust Index**: Measures the rusting tendency of ferrous parts.
- **Foam Index**: Measures the foaming tendency and foaming stability of an oil.
- **Compositional Analysis**: Determines the water separation characteristics of an oil.
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TO SERVE YOU BETTER

To ensure that each result can be interpreted properly by our experts, the values must be compared with those of the reference oil sample. For this reason, we offer new oil samples free of charge.

ATTEND OUR TRAININGS

Presented at your plant, in your region, at our offices or online, our courses are taught by certified instructors who cover a wide range of information related to the products and services we offer. Our courses in oil analysis and lubrication are based on the training offered by our exclusive partner, Noria Corporation. They are designed and delivered in a way to help you prepare for the various ICML Certifications (International Council for Machinery Lubrication).