

You asked for more  
and you got it!



# Professional Maintenance Training

From your friends at The Fluid Life Corporation

## Oil Analysis & Lubrication Fundamentals



Join our highly successful 3-Day Oil Analysis Seminar developed by Fluid Life based on its 25+ years of professional analytical and field experience.

Empower your maintenance department with a total lubrication management system. Start by getting the best training available. With the number of trainees now ranging in the hundreds, Fluid Life training has a proven it can help bridge the gap between constructive theory and useful field application.



## WinRoast Software

From Sample Taking to Sample Management

Learn how to use the best oil analysis software available and your samples will reveal all potential maintenance information.

- Analyze
- Organize
- Predict
- React



## Coolant Analysis

Track Down Those Elusive Coolant Culprits

Take the mystery out of the "other" essential fluid and why it can be the real cause of many equipment failures and reliability pitfalls.



# Oil Analysis & Lubrication Fundamentals

Duration: 3 - Days

## New For 2010!

### More:

- Workshops
- Case Studies
- Data Interpretation

### Lubrication Fundamentals

A general overview of the functions, types, properties and limitations of a lubricant.

- Physical and Chemical Properties (viscosity, pour point, etc.)
- Performance Properties (oxidation stability)
- Base Oils (API Group I to V)
- Additives (types and what they do)
- Oil Films & Regimes (hydraulic, boundary)
- Grease Properties & Performance Characteristics

### Managing a Successful Program

A success of any program or initiative begins with the first few critical steps that are well thought out and organized.

- Why do we need oil analysis?
- Building a road map to success
- Identifying opportunities
- Plan your attack
- Management justification and buy-in
- Implementation
- Review & Continuous Improvement

### Oil Sampling Techniques & Practices

How to avoid the "garbage in/garbage out" pitfalls of oil sampling. This area reviews the various methods and procedures for taking representative samples.

- Sampling methods and locations
- Representative samples (Where/How/Why?)
- Oil Sampling frequency (matching equipment type, operating conditions & goals)

### Oil Cleanliness & Contamination Control

This section takes an in-depth look at understanding the criticality of oil cleanliness in the operating equipment.

- New Oil Cleanliness (How clean is clean?)
- Understanding ISO Particle Counts
- Filter Types & Ratings
- Filtration Methods (oil line, off-line, filter carts)
- Storage & Handling Practices

### Data Interpretation

This section examines all of the various fluid testing equipment and techniques including a brief look at the purpose and limitations of each instrument. The test equipment is categorized into the following three groups:

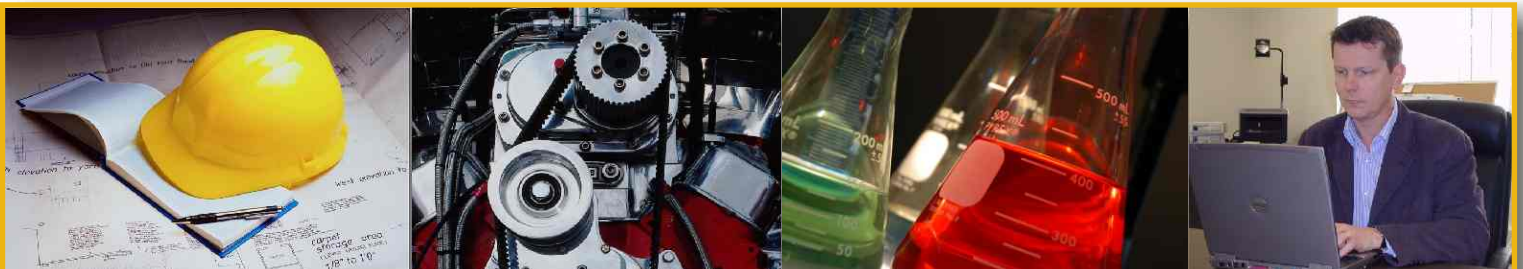
- Fluid Properties (viscosity)
- Contamination Tests (glycol/fuel)
- Wear Debris Analysis (Ferromgraphy, Filter Analysis)

In addition this section brings clarity and understanding to evaluating and interpreting the oil analysis data into meaningful information directly related to the condition of the operating equipment.

- Establishing test limits
- Interpretation of the analysis results
- Determining the proper course of action

### Data Interpretation Workshops

The seminar will culminate with interactive workshops where the attendees have the opportunity to put the knowledge gained during the seminar to practice. The attendees will work through several examples of real life analysis results begging for a sharp eye to interpret successfully.



# WinRoast Basic

**Duration: 1 - Day**

Dedicated to the analysis of oil and other industrial fluids, WinRoast® is the most powerful software program available with numerous data management tools and reporting options. WinRoast® training is essential for achieving your reliability goals and maximizing the return on testing.



- view and edit data.
- manage units (create, edit, merge, delete).
- setup new oil samples for baseline.
- setup samples, including easier batch setup and non-routine tests.
- communicate with the lab, send samples and receive results and other reports.
- schedule automatic reports, i.e. problem samples, samples due.
- create your own flagging rules (global and component specific).
- print reports (results, maintenance and standard WinRoast reports).
- edit your preferences, customize WinRoast to suit your needs.
- create sampling schedules.
- graph results, useful for seeing the 'whole picture' and developing flagging limits.
- export data to other maintenance software and Excel.
- search database for samples based on multiple criteria.
- manage WinRoast user accounts, restrict access and authority for some users.

# Coolant Analysis

**Duration: 1 - Day**

Now rightfully realized as a key contributor to equipment failure, coolant breakdown and contamination can be combated by vigilant testing and monitoring. Coolant analysis and training are integral components in a fully formed maintenance strategy. Let our trainers give you the means to make it work for you.

This is an intensive one-day course and covers the following topics:

1. Functions of Coolant/Antifreeze.
2. Types of Glycol.
3. Suggested Water Quality Limits
4. Groups of Coolants.
5. Types and Functions of Coolant Additives.
6. Coolant System Problems.
7. Cooling System Degradation.
8. Characteristics of Coolant System Deposits.
9. Water Properties That Produce Acid.
10. Engine Problems Due to Acid.
11. pH Concerns.
12. Benefits of Coolant Analysis.
13. Coolant Test Programs.
14. Understanding the Analysis Tests.
15. Data Interpretation.

*"40% of engine problems can be traced back to an improperly functioning cooling system."  
Cummins Filtration (Monitor)*

*"Fifty percent of all engine downtime is associated with cooling system problems."  
Caterpillar Inc.*

# WinRoast Report Writer

Report Writer is an extremely powerful and customizable component of WinRoast. Take full advantage of this robust trending and reporting tool, by taking an intensive two-day seminar either at Fluid Life or talk to our Training Director about scheduling an on-site seminar.





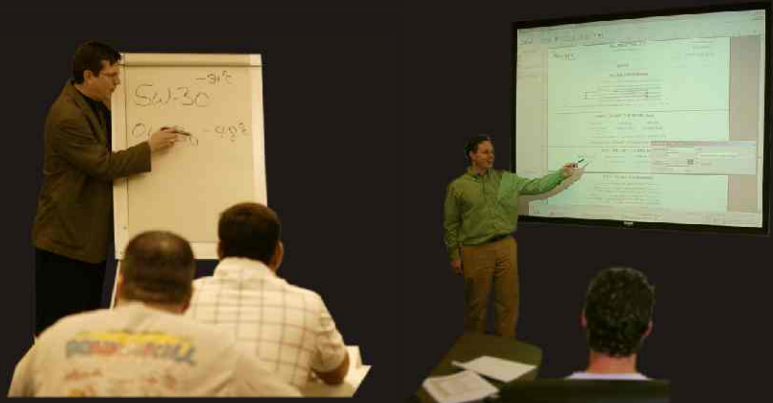
Paul Hetherington, CLS, OMA 1, MLT 1, MLA 1, Manager Training & Consulting Services, The Fluid Life Corporation. Paul has over 25 years of extensive industry knowledge including, lubrication and oil analysis, development of several in plant reliability initiatives (vibration, thermography, ultrasonics and oil analysis), and plant maintenance engineering technology and support. He was the former corporate Lubrication and Fuel Specialist with a major oil sand operation in northern Alberta. Paul is a Certified Lubrication Specialist and has been an active member of the STLE (Society of Tribologists & Lubrication Engineers) since 1990. Paul presently holds a position on the STLE Board of Directors. You are certain to enjoy his insightful, comprehensive and enthusiastic approach.



Evan Zabawski, CLS, OMA 1, MLT 1, MLA 1, is a Fourth Class Power Engineer with a diploma in chemical engineering. Prior to joining The Fluid Life Corporation Evan gained previous experience as a manager of a tribological lab before moving into the field of power generation fluid maintenance. He has been a member of STLE for over 9 years and is Chair of the STLE – Alberta Section, Host Section Chair of the 2006 STLE Annual Meeting Planning Committee, editor of the STLE TLT magazine, and frequent presenter at many local sections and past annual meetings. He has published several technical papers and is also a member in good standing of API and ASTM.

### Comments From Previous Attendees

- “A straight forward presentation. It was not difficult to follow and understand”
- “(I liked) the interaction with the other members about their problems and what they do at their plants.”
- “It was really well organized and professional.”
- “Very good course, I would recommend it to any engineer/millwright.”



The Society of Tribologists and Lubrication Engineers (STLE) will be holding exams for “Oil Monitoring Analyst Level 1 (OMA1)” and “Certified Lubrication Specialist (CLS)” at the seminar hotel on the Thursday evening following the course.

PLEASE NOTE: Although the courses offered by The Fluid Life Corporation are not a preparatory for the exams conducted by the STLE, the Fluid Life Seminars will aid attendees in developing their knowledge base. A single seminar may not cover all areas that appear on the exams and are not specifically designed to do so.

Attendees wishing to challenge the exam are encouraged to visit the STLE website for further information, or to register for the exams. Go to [www.stle.org](http://www.stle.org) (PLEASE DO NOT CONTACT FLUID LIFE)



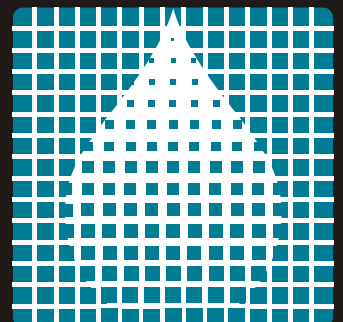
If you would like further information, or wish to register please respond via one of the following methods:

- Internet: [www.fluidlife.com/train\\_seminars\\_regist.html](http://www.fluidlife.com/train_seminars_regist.html)
- Call Paul @ (780) 462-2400
- 1-877-962-2400 (toll free)
- E-mail: [paul@fluidlife.com](mailto:paul@fluidlife.com)
- Fax: (780) 462-2420
- Talk to your Regional Account Manager

### The Fluid Life Corporation

9321 - 48 Street  
Edmonton, AB T6B 2R4  
Phone: (780) 462-2400  
Fax: (780) 462-2420  
Toll Free: 1-877-962-2400

95 Copernicus Blvd.  
Brantford, Ontario N3P 1N4  
Phone: (519) 720-9700  
Fax: (519) 720-9705



# Seminar Dates and Locations for 2010

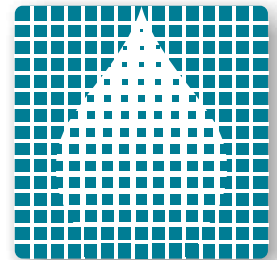
Register instantly  
by going online and  
reserving your seat at  
[www.fluidlife.com](http://www.fluidlife.com)

## Oil Analysis and Lubrication Fundamentals

City	Date	Duration	Cost
Ft. McMurray, Alberta	Aug. 17 - 19, 2010	3 - Days	\$1695+GST
Halifax, Nova Scotia	Aug. 24 - 26, 2010	3 - Days	\$1695+GST
* Minneapolis, Minnesota U.S.A.	Sept. 20 - 22, 2010	3 - Days	\$1495+Tax
Hamilton, Ontario	Oct. 4 - 6, 2010	3 - Days	\$1695+GST
Edmonton, Alberta	Nov. 16 - 18, 2010	3 - Days	\$1695+GST

\* For U.S. Cities costs are payable in U.S. Dollars Only.

If you have any questions  
about the seminars here,  
talk to your Regional  
Account Manager or email  
our Training Director:  
[paul@fluidlife.com](mailto:paul@fluidlife.com)



### Edmonton

9321 - 48 St.  
Edmonton AB T6B 2R4  
Phone (780) 462-2400  
Fax (780) 462-2420  
1-877-962-2400 (toll free)

### Brantford

95 Copernicus Boulevard  
Brantford, Ontario N3P 1N4  
Phone (519) 720-9700  
Fax (519) 720-9705

Please note that charges will be  
applied at time of registration.  
Cancellation Policy: Full refund if  
cancelled 72 hours prior to start  
of seminar. No-shows and  
cancellation without 72 hours  
notice will receive a 50% refund  
or a full credit towards a future  
seminar.

You can view seminar  
venue information and  
hotel booking information  
as it becomes available  
on our website:  
[www.fluidlife.com](http://www.fluidlife.com)

## Coolant Analysis Seminar

City	Date	Duration	Cost
Ft. McMurray, Alberta	Aug. 20, 2010	1 - Day	\$595+GST
* Minneapolis, Minnesota U.S.A.	Sept. 23, 2010	1 - Day	\$525+Tax
Hamilton, Ontario	Oct. 7, 2010	1 - Day	\$595+GST
Edmonton, Alberta	Nov. 19, 2010	1 - Day	\$595+GST

\* For U.S. Cities costs are payable in U.S. Dollars Only.

## WinRoast Basic Seminar

City	Date	Duration	Cost
Ft. McMurray, Alberta	Aug. 16, 2010	1 - Day	\$595+GST
Halifax, Nova Scotia	Aug. 27, 2010	1 - Day	\$595+GST
Edmonton, Alberta	Nov. 15, 2010	1 - Day	\$595+GST

## Training Seminar Combo Package

### 5 - Day Training Package

- WinRoast Basic - 1 Day (Monday)
- Oil Analysis & Lubrication Fundamentals - 3 Days (Tuesday - Thursday)
- Coolant Analysis - 1 Day (Friday)

City	Date	Duration	Cost
Ft. McMurray, Alberta	Aug. 16 - Aug. 20, 2010	5 - Days	\$2595+GST
Edmonton, Alberta	Nov. 15 - Nov. 19, 2010	5 - Days	\$2595+GST

 **The Fluid Life**  
Corporation  
[www.fluidlife.com](http://www.fluidlife.com)