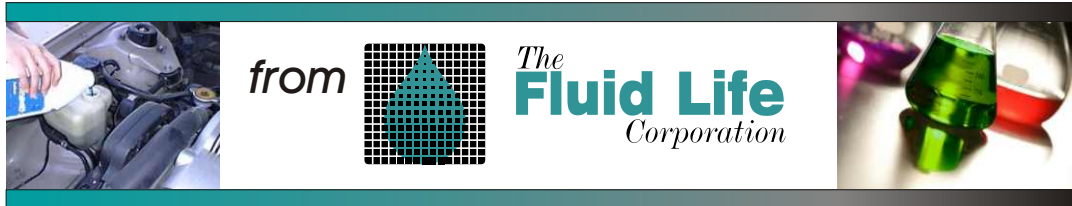
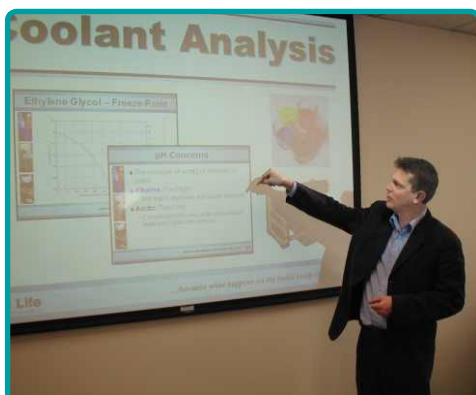


# Coolant Analysis Seminar

## Professional Coolant Analysis Training



This seminar provides attendees with a solid understanding of coolant types and systems. In addition, this training will provide a clear understanding of how a successful coolant analysis program will complement the overall reliability initiatives and oil analysis programs.



Paul Hetherington, well known lubrication specialist, industrial educator, tribologist, consultant, and expert in fluid analysis with over 25 years of industry experience.

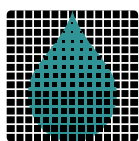
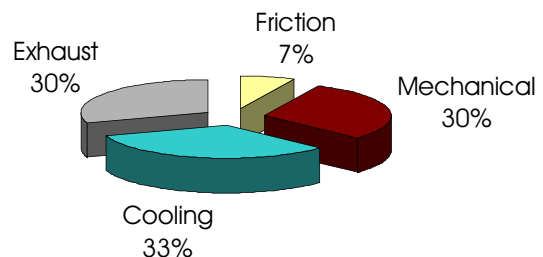
Professional training combined with regular coolant analysis provides customers with the following predictive benefits:

- increased engine life.
- increased reliability (uptime).
- reduced maintenance costs.
- improved engine oil performance.
- predict failures by trending abnormalities.
- indicates when coolant should be replaced.
- can give indications as to other engine problems early.
- clean coolant promotes cooler working temperatures.
- properly maintained coolant means fewer coolant changes and less labor costs.
- identify maintenance problems before catastrophic engine failure occurs.
- can prevent coolant leeching into other key engine components.

This Intensive One-Day Training Session covers the Following Topics:

- Functions of Coolant/Antifreeze.
- Types of Glycol
- Suggested Water Quality Limits
- Groups of Coolants
- Types and Functions of Coolant Additives
- Coolant System Problems
- Cooling System Degradation
- Characteristics of Coolant System Deposits
- Water Properties That Produce Acid
- Engine Problems Due to Acid
- pH Concerns
- Benefits of Coolant Analysis
- Coolant Test Programs
- Understanding the Analysis Tests
- Data Interpretation

### Percentage of energy expended from fuel burned.



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