

AGAT Laboratories 

In-Service Oil Analysis Program

Why is Oil Sampling important?

Routine oil sampling of your equipment is the key to a successful maintenance program. Consistent oil analysis provides essential information to determine the condition of your equipment or status of the oil.

By sampling at determined intervals, you'll be able to understand the "normal" trend of your equipment or lubricant. This will allow you to take early action when a sample shows abnormal results and pin-point the problem in the equipment based on wear particles, contamination, or degradation of the oil.

Early warning of small problems leads to savings in time and money by reducing unscheduled downtime, extending equipment life, and avoiding costly repairs. This all comes down to minimizing costs and increasing your profit margin.

How does the Oil Analysis Program work?

AGAT Laboratories, a third-party lab, is the laboratory of choice to ensure objectivity of results.

Order Kits:

Contact your AGAT Representative



Submit a sample:

100mL kits for Oil samples
1L Plastic jar for Fuel samples



Evaluate your results:

1. Confirm sample information
2. Identify trends
3. Take action

Contact your Project Manager for assistance with interpretation of results

Oil Testing Packages: 100mL sampling kits, vacuum pump, and tubing.

Package	Used for	Fuel %	ICP	IR	VISC	TBN or TAN	TAN	ISO	KF	Patch
Complete	High cost, high priority equipment	✓	✓	✓	✓	✓	✓	ISO or PATCH	✓	ISO or PATCH
Diesel/Natural Gas Engine package	Diesel Engines, Natural Gas Engines	✓	✓	✓	✓	✓				
Recirculating system package	Hydraulics, Gearbox, Pumps, Compressors		✓	○	✓		✓	✓	✓	

Fuel Testing Packages: 1L plastic jars

Package	Used for	Density	Distillation	Water content	Particulate content	Flash point	Cetane Index	Other
Basic Gasoline	Checks for basic characteristics of fuel (1L sample is required)	✓	✓	✓	✓	✓	✓	
Basic Diesel		✓	✓	✓	✓	✓	✓	
Heating Fuel oil (marine eq)		✓	✓	✓	✓	✓		Viscosity
Fuel contamination	Checks for basic characteristics plus microbial contamination		✓	✓	✓	✓		Humburg

How to properly take an oil sample?

Important: Oil must be sampled at operating temperature, and no more than one hour after the equipment stopped.

1. Open your sampling kit. Each kit contains: a black mailing container, a clear sample bottle, and sample label.
2. Sample from the top of the tank into the clear sample bottle using a vampire/vacuum pump and tubing. Always use new, clean tubing for collecting new samples.
3. If using a drain port or sampling valve, always collect the sample mid-stream.

4. Label the bottle and fill out the sample information form: date, unit number, oil brand and grade, and contact information for receiving results.
5. Place the label and sample bottle inside the black mailing container.
6. Send the sample to your closest AGAT branch or depot, or submit directly to the laboratory in Calgary.

For more information please contact
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