



Fleet Oil Analysis — Analysts Keeps 'Em Rolling

Catastrophic failure can shut down the finest engine or transmission. When components break down, it's usually at the worst time and place.

The only way to know what is really going on inside your equipment is through the analysis of used oil in your fleet's engines, gears and hydraulics by testing fuel quality and coolant systems.

In 1960, Analysts was the first independent laboratory to provide complete oil-analysis diagnostic services to on and off-highway equipment. We specialize in diagnostic services for a variety of equipment, including construction, trucking, transit, marine and mining applications.

Analysts provides expert evaluations and specific maintenance recommendations on how to correct indicated problems, and how to eliminate their causes.

Analysts ensures your fleet's productivity by providing reports and data that allow you to monitor the condition of your equipment. We also help you understand the what, when, where and why of conditions happening inside your equipment's components.

24-Hour Response

Analysts is the most thorough, yet easiest-to-use preventive-maintenance program in the industry. Within 24 hours after receipt of your oil samples, our lab technicians perform their tests using the most advanced equipment and instrumentation available.

Our data analysts study the test results for any contaminants and wear particles that may be present in your equipment.

Using an extensive computerized database and records compiled over forty-eight years—including detailed specifications on most equipment components—abnormal wear, contamination and oil-related problems are identified.

Before making any recommendations, our data analysts refer to your equipment's oil type, time since last service and the make and model of the component.

If critical conditions are detected, Analysts calls you immediately to discuss the results. Test reports can be automatically faxed, electronically downloaded or e-mailed to your location. You can also view and print reports from www.analystsinc.com, our advanced web-based data service.

The Most Thorough Analysis Available

Different combinations of physical and spectrochemical tests are used to measure the properties of the lubricant and to determine levels of contaminants and elements suspended within it. The application and goals of your oil analysis program determine the number and type of tests that should be routinely performed.

➔ Physical analysis

These tests measure important characteristics of the lubricant to identify changes that have occurred. Tests can include viscosity, fuel dilution, water, soot, glycol, acid number and base number.

➔ Spectrochemical analysis

These tests identify and measure 21 elements that may be present in the lubricant. The concentrations of these elements are used to monitor wear rates, detect contaminants, and determine coolant-and oil-additive levels.



Analysts will select and recommend the proper combination of tests at the beginning of your sampling program.

Through Analysts, you will:

- ➔ Receive immediate alerts of trouble due to abnormal wear and contamination
- ➔ Be able to predict and schedule maintenance
- ➔ Reduce downtime
- ➔ Maximize time to major overhaul
- ➔ Optimize-service intervals
- ➔ Optimize oil change intervals
- ➔ Increase engine and component life
- ➔ Monitor your fleet's maintenance history to factor performance and costs into asset management

Additional Tests and services

➔ LEM®

LEM is the most accurate and affordable way to monitor fuel soot. LEM measures the weight and percent of soot present in engine oil as applied to OEM-specified maximum soot levels.

➔ Particle Counting

Analysts provides complete testing of hydraulic fluids to monitor equipment wear and oil condition.

➔ Fuel Analysis

Fuel cleanliness and consistency are frequently variable. Analysts' procedures measure physical characteristics, contamination and stability in both storage and use to insure that fuel meets ASTM product standards. Programs are available for all blends of diesel and biodiesel fuels.

➔ Coolant Analysis

Monitors cooling system, antifreeze and coolant, and additive levels for early warning signs of problems. Programs are available for both ethyleneglycol and extended-life products.

➔ LOAMS®

Reporting and fleet maintenance data can be accessed on-line or through disk media files with Analysts' Lube Oil Analysis Management System.

➔ QSS® Quick-Sampling System

To speed sampling, Analysts offers a QSS valve that permanently attaches to any engine or gearbox. The QSS assures representative sampling in less than a minute.

Five U.S. Locations To Serve You

See for yourself how Analysts' services will help build your equipment productivity. Call your representative or the lab nearest you, or visit us at www.analystsinc.com.

- LOS ANGELES, CA 800-424-0099
- HOUSTON, TX 800-248-7778
- CHICAGO, IL 800-222-0071
- ATLANTA, GA 800-241-6315
- LOUISVILLE, KY 888-491-6063

