

Industrial Fluid Analysis



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Test Kits and Sampling Supplies

To order test kits, sampling equipment or supplies, contact your local Donaldson Industrial Hydraulics distributor. Refer to the chart at right for recommended sampling intervals by component.

The Advanced Industrial Fluid Analysis Kit

What Can the Donaldson Fluid Analysis Program Do For You?

Fluid analysis is a snapshot of what is happening inside your equipment. It tells you the condition of the lubricant and identifies component wear and contamination in virtually any industrial application so that you can:

- Identify opportunities for optimizing filtration performance
- Safely extend drain intervals
- Minimize downtime by identifying minor problems before they become major failures
- Maximize asset reliability
- Extend equipment life

Benefits of Using the Donaldson Fluid Analysis Program

- Partnership with a total filtration solutions provider
- High quality testing by an ISO 17025 A2LA accredited laboratory
- Results available immediately upon sample processing completion
- Innovative data management tools that will help you affect change in daily maintenance practices.



is designed to monitor component wear, contamination and fluid condition. **Product** Part # Industrial Fluid Part #X009330 **Analysis Service** 24 Metals by ICP Water by Karl Fischer, ppm Viscosity at 40°C or 100°C Oxidation/Nitration by FTIR Total Acid Number ISO Particle Count/ Particle Quantifier Sample Extraction Pump Part #P176431

Sample Extraction Tubing



Part #P176433

Suggested Sampling Intervals and Methods

Fluid analysis is most effective when samples are representative of typical operating conditions. Always take samples at regularly scheduled intervals and from

the same sampling point each time. How critical a piece of equipment is to production should be a major consideration for determining sampling frequency.

	Component Interval	Suggested Method & Location
Hydraulics	250 – 500 hours	By vacuum pump through oil fill port of system reservoir at mid-level
Gearboxes	750 hours	By vacuum pump through oil level plug or dipstick retaining tube
Compressors	Monthly or at least every 500 hours	By vacuum pump through oil fill port of system reservoir at mid-level
Turbines	Monthly or at least every 500 hours	By vacuum pump through oil level plug or dipstick retaining tube

Sending Samples to your Donaldson Laboratory

Step 1

Fill out the Component Registration Form and include it with your sample in the shipping container provided. Use this form only when sampling a component for the first time or when submitting changes in component or fluid information already submitted to the laboratory.

Step 2

Fill out the sample jar label completely and accurately, including unit ID, time on both the fluid and the unit and whether or not fluid has been added or changed.

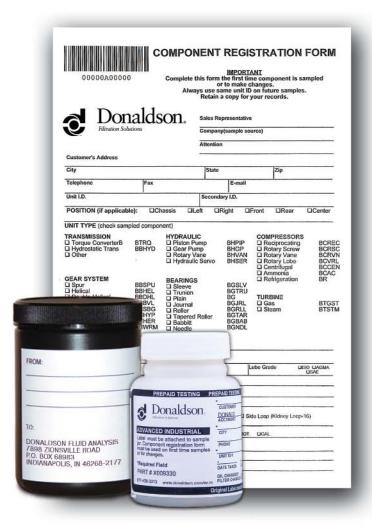
Step 3

Complete the return address shipping label and apply it to the shipping container. Use only a trackable shipping service such as UPS or FedEx to send samples to the laboratory at:

Donaldson Fluid Analysis Laboratory 7898 Zionsville Road Indianapolis, IN 46268

Step 4

Set up your account and receive your username and password for easy access to your test results by calling the laboratory's Customer Service at 877-458-3313. Go to www.donaldson.com, click on Industrial Hydraulics, and locate Fluid Analysis. Log in with your assigned username and password.



Data Management Solutions That Save You Time and Money

Donaldson's data management solutions make it fast and easy to maximize the value of your test results. Your Donaldson test report color codes individual results by severity for a better understanding of the overall severity of the report. It also provides a graphical representation of the cleanliness level of the fluid with a photomicropatch accompanied by the Target ISO Chart done on each sample.

With Donaldson, you're also on track for total program management with problem summary reports, sample processing turnaround tracking and data mining capabilities that allow you to affect positive change in your daily maintenance practices.

- Get test results almost immediately online
- Identify significant trends in fluid cleanliness
- Use management reports to pinpoint problems with critical units
- Identify bottlenecks in sample turnaround time
- Influence equipment purchasing decisions
- Access your information from anywhere there is an internet connection

Go to www.donaldson.com and click on Industrial Hydraulics for a reference guide on how to read a fluid analysis report.

