

Hydraulic Fluid Analysis Service

# What You Don't Know Can Hurt You



**EATON**

*Powering Business Worldwide*

# Eaton's Hydraulic Fluid Analysis Service



## **Fluid is the lifeblood of every hydraulic system**

Fluid analysis is essential to keep your hydraulic system operating efficiently and effectively. Considering 80% of all hydraulic system failures are caused by poor fluid condition, an effective fluid analysis program will help identify contamination and other problems not visible to the naked eye.

### **Eaton's Hydraulic Fluid Analysis program includes:**

- Prepaid standard and optional advanced fluid analysis kits
- Fluid tests performed at ISO 17025 accredited laboratories
- Analysis reports available via email and online
- Results available 24-48 hours after laboratory receipt of fluid samples

### **Benefits**

- Reduce potential catastrophic equipment failures
- Maintain, optimum component performance
- Identify any substandard filtration and maintenance practices
- Overall increased productivity



# Hydraulic Fluid Analysis Kits

## Standard Kit:

Part # 894276-P

Tests included

- Particle Count
- Water
- TAN/pH
- Viscosity
- pH

## Advanced Kit:

Part # 894277-P

Tests included

- ICP Spectrometric Analysis
- Particle Count
- Water
- TAN/pH
- Viscosity
- pH

## Extraction Pump:

Part # 5004092



Fluid analysis kit includes the prepaid fluid analysis service, 3 oz. oil sample bottle, component registration form, and necessary packaging for mailing sample bottles.

## Results and Reports

Test results are available 24-48 hours after receipt of oil samples. Recent and historical reports are available via email and online for 24 hours access and trend review.

Overall report and individual test severity levels are flagged for abnormal and critical issues. In addition, recommendations and potential causes are noted based on the test results and findings



## Test Definitions

### Particle Count

Provides the number of particles of a specific size in a specific amount of fluid.

### Water

Measures moisture in the oil. Component life is reduced when water is present in the oil. Water can also cause the formation of oxidation products and corrosion of metallic surface.

### TAN/pH

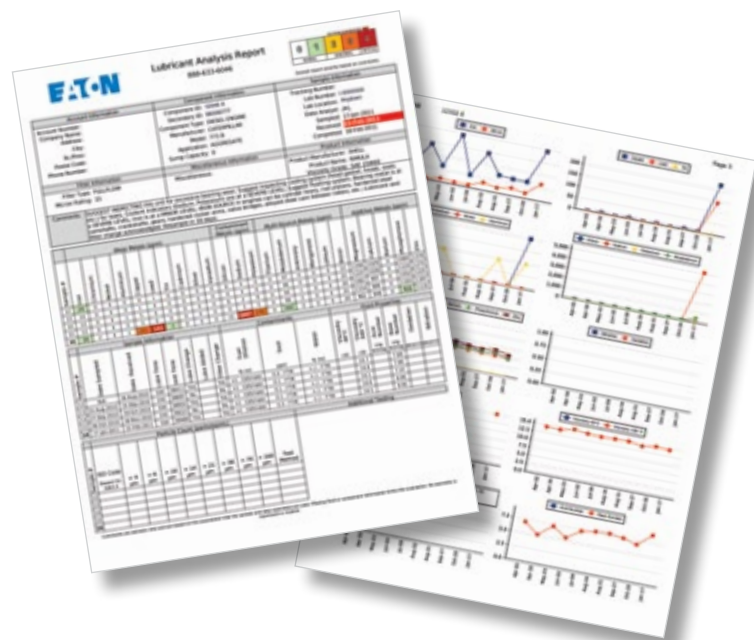
Total Acid Number and pH relate to the amount and strength of acidity in the system. An increasing TAN trend indicates oxidation or acid contamination.

### Viscosity

Viscosity is a measure of the oil's resistance to flow. Incorrect viscosity leads to fluid breakdown, inefficient equipment operation, premature system failure and damage to other components

### ICP Spectrometric Analysis

Spectrometry measures the concentration of oil soluble elements, and indicates the additives and trace wear metal content in the fluids.



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