



Donaldson Delivers

# Portable Fluid Analysis Kit

For Hydraulic and Lubricating Oils

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 application. The Portable Fluid Analysis Kit (**Part No. X009329**) allows you to conduct immediate on-site particulate analysis in as little as ten minutes.

Using the patch test method, you can quickly and reliably assign a three-digit cleanliness code per ISO 4406-1999 to a given fluid sample. Simply pull a 25 ml fluid sample through a patch membrane filter and compare oil sample particle distribution with the Fluid Cleanliness Comparison Guide (included with kit) to assign an ISO Cleanliness Code.

## Benefits of Fluid Analysis

- Identify opportunities for optimizing filtration performance
- When improvements are made, use it to monitor the cleanliness status of the system.
- Safely extend drain intervals
- Minimize downtime by identifying minor problems before they become major failures
- Extend equipment life
- Great alternative to expensive, portable electronic devices

## 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.

Hydraulic	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



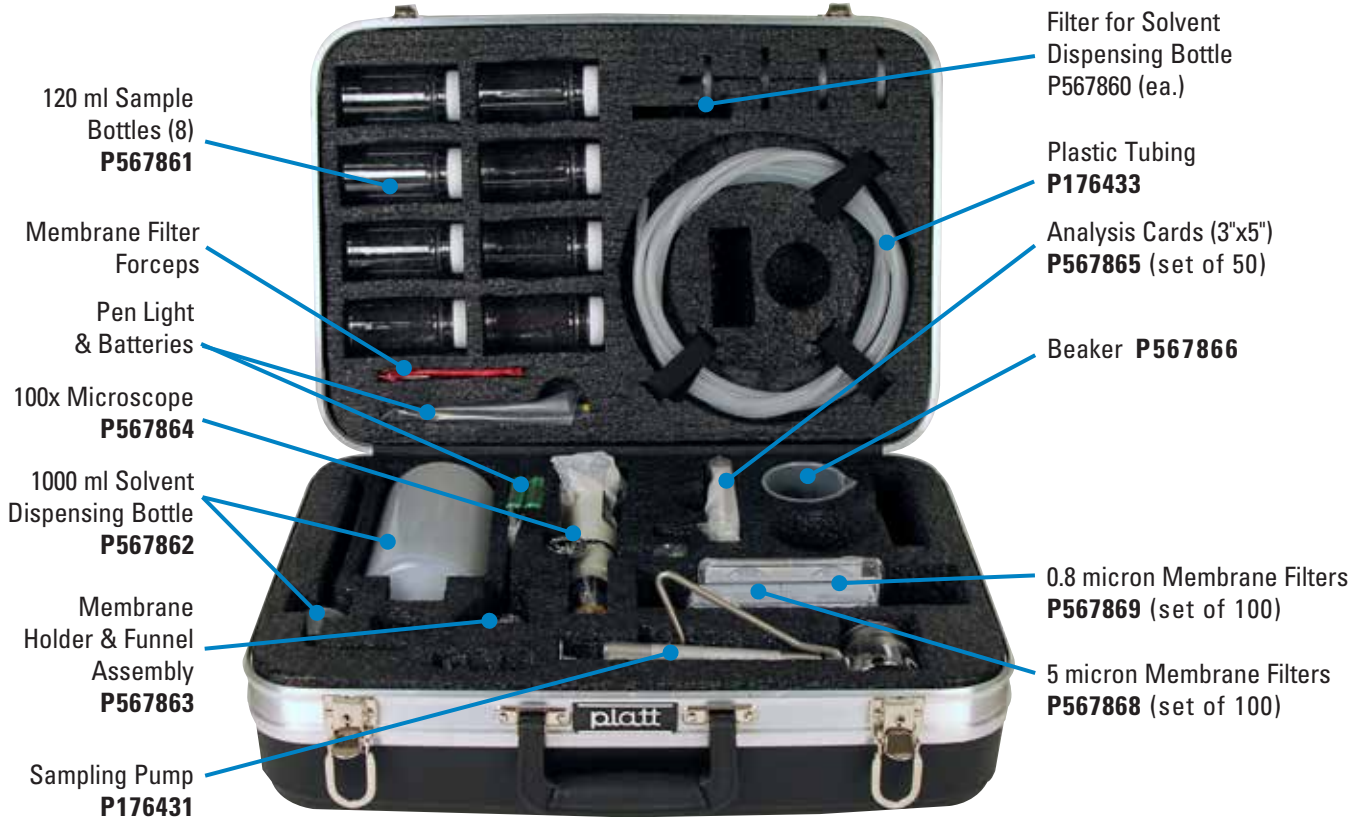
### Donaldson Part No. X009329

The Donaldson Portable Fluid Analysis Kit includes enough supplies for 100 fluid samples. All items are securely packaged and well-protected with laser-etched foam in a sturdy carrying case.

## Kit Part Number X009329

### Content and Physical Size:

**Case Size:** *Height:* 14.5"/368.3mm *Width:* 19.25"/489mm *Depth:* 7.75"/197mm  
**Case Weight:** 9.95 lbs/4.51 kg



## Basic Steps for Use

Kit includes detailed operating instructions and visual comparison guide.

1. Assemble the pump and funnel assembly and screw on empty sample bottle.
2. Place solvent dispensing bottle filter on spout of solvent dispensing bottle.
3. Wash funnel with solvent\* and pull solvent through assembly with hand-operated vacuum pump.
4. Place a patch membrane in the funnel assembly.
5. Pour the fluid sample into the funnel and fill to the 25 ml level.
6. Pull sample through patch membrane with hand-operated vacuum pump.
7. Wash funnel with solvent and pull through patch membrane with hand-operated vacuum pump.
8. When sample passes completely through patch membrane, remove membrane with forceps, place on clean index card and immediately cover with adhesive analysis lamination cover.
9. View patch membrane through microscope and compare sight screen from 100x microscope to various pictures shown in the Fluid Cleanliness Comparison Guide (included in kit) to assign the appropriate ISO cleanliness code.

\* Odorless mineral spirits



Donaldson Company, Inc.  
PO Box 1299  
Minneapolis, MN  
55440-1299

North America 800-374-1374  
Mexico 52-449-910-6150  
Latin Am. & Caribbean 52-449-910-6150  
Brazil 55-11-2119-1604  
Europe 32-16-38-3811

South Africa 27-11-997-6000  
South East Asia 65-6311-7373  
Greater China 852-2405-8388  
Japan 81-42-540-4112  
Korea 82-2-517-3333  
Australia 61-02-4350-2033  
India 91-124-2290060

[www.donaldson.com](http://www.donaldson.com)  
[www.donaldsonfilters.com](http://www.donaldsonfilters.com)

Brochure No. F111381 ENG (11/12)

© 2012 Donaldson Company, Inc. All rights reserved. Donaldson Company, Inc. reserves the right to change or discontinue any model or specification at any time and without notice. Printed in the U.S.A.