

Portable Fluid Analysis Kit

The Donaldson Portable Fluid Analysis Kit allows you to conduct immediate on-site particulate and water 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) to assign an ISO Cleanliness Code.

Also included is a water test kit that can be used to determine the percentage of water in hydraulic and lubrication oils. The water test kit has five ranges from .005% to 12% water. Measurements can be in parts per million or as a percentage of volume.

- Use this kit to determine which systems need improved filtration.
- When improvements are made, use it to monitor the cleanliness status of the system.
- A great alternative to expensive, portable electronic devices.



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

Benefits

- Easy to use
- Results in as little as 10 minutes
- Measures particulate and water contamination levels
- Provides reliable results



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Portable Fluid Analysis Kit

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Kit Part Number **X009329** Height: 14.5" Width: 19.25" Depth: 7.75" Weight: 9.95 lbs

Replacement part numbers listed below

Filter for Solvent
Dispensing Bottle
P567860 (ea)

120 ml Sample Bottle
P567861

Membrane Filter
Forceps

Pen Light

100X Microscope
P567864

1000 ml Solvent
Dispensing Bottle
P567862

Membrane Holder &
Funnel Assembly
P567863

Sampling Pump
P176431



Plastic Tubing
P176433

Analysis Cards (3"x5")
P567865 (set of 50)

Beaker **P567866**

Water Test Vessel
P567855

Syringe **P567858**

0.8 micron membrane filters
P567869 (set of 50)

5 micron membrane filters
P567868 (set of 50)

Reagent A for Water
Analysis **P567851**
(set of 50)

Operation Instructions

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 Comparison Guide (included in kit) to assign the appropriate ISO cleanliness code.



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

Tel 800.846.1846
Fax 952.703.4913
hydraulicfilters@mail.donaldson.com
www.donaldson.com

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