

NORMAN FILTER COMPANY, L.L.C.

FILTER CART MANUAL

NEF04



WARNING !!!

The System Line Is A High Pressure Line.
Be Sure There Is No Pressure In The Line Before Connecting/Disconnecting Filter Assembly.

EXPLOSION HAZARD !!!

Do Not Use Where Flammable Vapors Are Present—Motor Can Spark Explosion.
Do Not Pump Flammable Liquid Such As Gasoline, Alcohol, Solvents, etc.

APPLICATIONS:

- Transferring new fluid from drums or storage tank to system reservoir.
- Complementing existing system filtration on a preventative maintenance program.
- Filtering new fluid before putting into service.
- Removing water from hydraulic or lube oils.
- For use with fluids such as hydraulic, gear, lube oil, water soluble fluids and coolants. Call factory regarding compatibility.

Norman Filter Carts are a ideal way to pre-filter and transfer fluids from one container to another or to re-circulate fluid (kidney loop filtration) in a reservoir to remove particulate and water contaminates in existing systems.

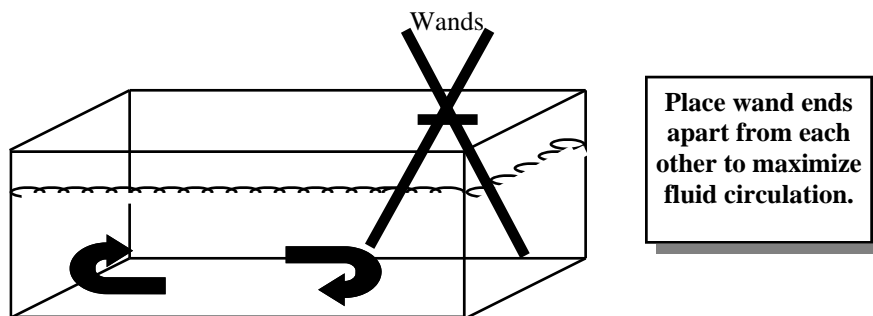
New fluid should always be filtered before putting into use. New barreled oil on average contains 7 grams of dirt. Most new fluids are unfit for use due to high initial contamination levels. Contamination, both particulate and water, may be accidentally added to a new fluid during processing, mixing, and handling and storage.

Norman Filter Carts can also remove water by the use of an aqua absorbing filter elements. The Norman aqua absorbing elements remove up to 29 ounces of water from hydraulic oil, while filtering particulate down to 3 micron absolute.

The Norman Filter Carts utilize two stage filtration. The first stage (primary) for larger particles, the second stage (secondary) for finer particles.

Operating Instructions

- 1) Insert the inlet wand assembly into the supply fluid drum/reservoir.
- 2) Insert the outlet wand assembly into the transferring drum/reservoir.
If filtering oil on existing equipment reservoirs, locate the inlet wand away from the outlet wand to prevent a direct flow path.
- 3) Verify that the ON/OFF switch is OFF and plug the cord into a 115VAC 10A grounded outlet (3wire).
- 4) Turn switch to ON position and check outlet wand to verify for oil flow. Allow approximately 1-2 minutes depending on viscosity for filters to fill with oil on the initial start up.
- 5) The condition of the filter elements should be monitored by the gauges located on the filter head. When the differential pressure gauges read over 40 psi. turn OFF the filter cart and replace filter elements.



Norman Filter Company, L.L.C. · 9850 South Industrial Drive · Bridgeview, Illinois 60455

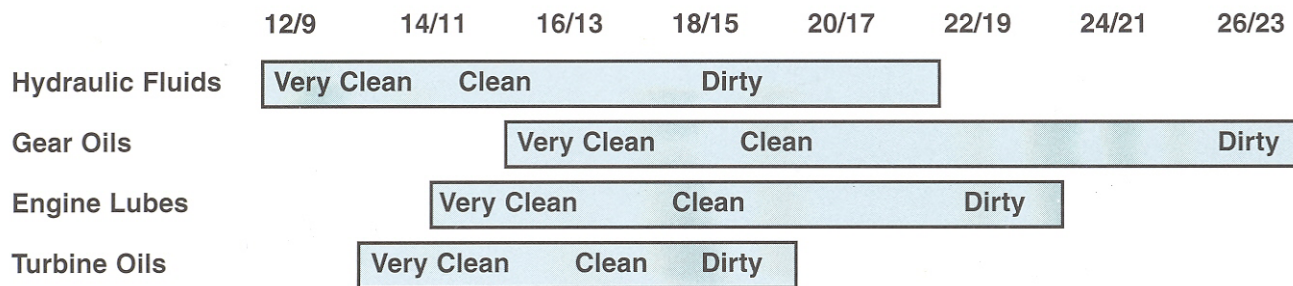
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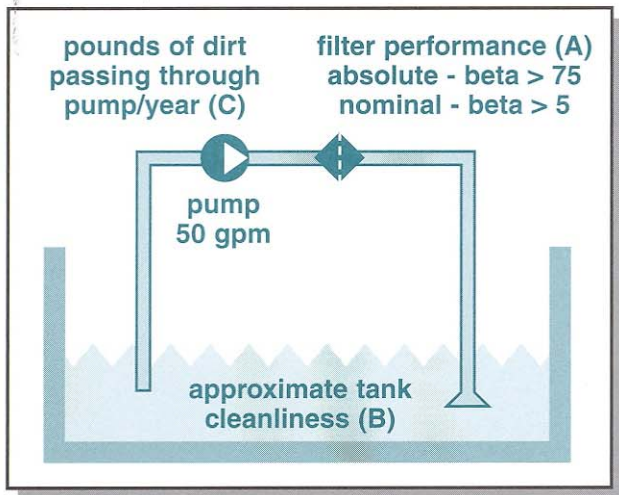
Trouble Shooting

PROBLEM	CAUSE	SOLUTION
Does not start.	ON/OFF switch	Turn switch ON, replace if defective
	Defective motor overload.	Replace motor overload (located in switch housing)
	No electrical power.	Check power supply
	Defective motor.	Replace motor
No oil flow Erratic pump noise	Defective pump or suction leak	Replace pump. Check hose for loose connections
Gauges read 40 psi or higher	Element has reached maximum dirt holding capacity	Install replacement elements

Recommended Fluid Cleanliness ISO Levels



At ISO 21/18, this hydraulic system passes 136 50-lb. bags of dirt through the teeth of the pump in one year.



REF. NORIA CORP.

Filter (A)	ISO Code (B)	Dirt (lbs.) (C)	50 LB bags	Relative Pump life
25 micron nominal	21/18	6784	136	1
10 micron nominal	19/16	1809	36	1.9
10 micron absolute	16/13	211	4.2	4.4
6 micron absolute	14/11	53	1	8.8
3 micron	12/9	14	0.28	15

Contact Norman Filter Company for a "FREE ISO FLUID ANALYSIS" on Hydraulic, Lube or Gear Oil System!

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