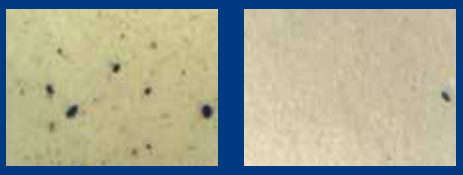
Portable Filter Carts, Kidney-Loop Filtration Systems

Designed for Use in the Most Demanding and Rugged Applications and Environments ...

... With Proven Performance



Samples of ISO 68 Hydraulic Oil

Before	**After**
Particulate —	Particulate —
ISO 22/20/18	ISO 14/12/10
NAS 10	NAS 4

OIL FILTRATION SYSTEMS®

A Clark-Reliance Company

Reliable Purification of Hydraulic and Lubr

Heavy Duty Welded Steel Frame – This cart will hold up to the toughest abuse!

Differential Pressure Gauge *for positive indication when the filter elements are plugged and need to be replaced.*

Check Valve on System Discharge *to prevent reverse flow*

Solid Rubber Wheels – No More Flat Tires!

Spill Containment Pan

Mini-Mess Upstream & Downstream Sample Ports

TEFC Electric Motor

20-Mesh Inlet Strainer for Pump Protection

Positive Displacement Gear Pump with Integral Relief Valve

Common Applications

- New Fill of Hydraulic and Lube Oil Systems, Including Gear Boxes
- Kidney Loop Filtration of Hydraulic and Lube Oil Systems, Including Gear Boxes
- EHC Fluids (FYRQUEL®, Phosphate Ester)
- PAG/PAO and Synthetic Oils
- Coolants and Water Glycols
- Diesel Fuel and HFO (Heavy Fuel Oil)
- Transformer Oil
- Compressor Oil

Particulate Removal

We utilize high efficiency pleated microglass filter elements that are rated Beta>1000 per ISO 16889 to achieve very low particle counts as low as ISO 14/13/11

Water Removal

Our water absorptive elements are capable of removing and retaining up to 2-gallons of free water

Acid Removal

We utilize Fullers Earth or Activated Alumina cartridges to neutralize acids, lower the TAN and improve the color of the oil.

Varnish Removal

The same filter housing can accept either granular adsorbent media to remove soluble varnish at warm oil temperatures, or depth media filters to remove suspended varnish from oil at cooler temperatures

rication Oils

New Oil: It's Not Clean!

Brand new oil in drums, totes and tanker trucks does not meet stringent OEM cleanliness specifications.

For this reason, brand new oil should be filtered before use.

A filter cart should be used for oil transfer, new fill and top off.

10 GPM Dual 820X Filter Cart for High Viscosity Oil

10 GPM 840X Kidney Loop Filtration System

10 GPM Dual Spin-On Filter Cart

Low Viscosity Systems

These are the most economical versions that we offer, designed for use with light hydraulic and lube oils (ISO 32 - ISO 100).

High Viscosity Systems

Built with special pump/motor packages and filter housings sized for gear oils (ISO 150 - ISO 680), even at cold ambient temperatures.

Employs High Efficiency Filter Elements

Oil Filtration Systems, LLC manufacturers its own high-efficiency filter elements for particulate removal from all mineral-based and synthetic hydraulic, lubrication, dielectric, and fuel oils. OFS elements are constructed of the highest quality micro-fibrous glass filtration media utilizing serial filtration technology, and the media are layered to achieve optimal performance characteristics. OFS elements are suitable for use in the most demanding applications, and they are designed and tested to provide the highest level of efficiency with the maximum dirt holding capacity. All OFS filter elements have particulate removal efficiencies of Beta(c)>1000 (99.9% for the stated micron size), which is based on ISO 16889-1999 testing standards. They are available in a wide range of micron sizes to suit virtually any application (2.5, 5, 7,12, and 22-Micron).

Model Selection Key

FC - 10 - S514D/2 - DPM - SS - AD - 120 - N4 - V - Z

FC = Filter Cart
FS = Filter Skid

Flow Rate:
3 = 3 GPM (680 L/Hour)
5 = 5 GPM (1200 L/Hour)
7 = 7 GPM (1590 L/Hour)
10 = 10 GPM (2300 L/Hour)
15 = 15 GPM (3400 L/Hour)
*220 Volt Required

Filtration:
2/S514D = (2) OFS-S514D Spin-On Filter Elements Plumbed in Parallel
S514D/2 = (2) OFS-S514D Spin-On Filter Elements Plumbed in Series
S514D = OFS-S514D Single Spin-On Filter Element
High Viscosity/Capacity Filtration:
820X/2 = (2) OFS-820X Cartridge Elements Plumbed in Series
820X = OFS-820X Single Cartridge Element
840X = OFS-840X Single Cartridge Element

***Optional Equipment:**
DPM = Digital Particle Monitor
SS = Stainless Steel Wetted Components
AD = Air Driven Motor

Electrical Requirement:
120 = 120V/ 1Ph / 60Hz
220 = 220V / 3Ph / 50Hz
208 = 208V / 3Ph / 60Hz
380 = 380V / 3Ph / 50Hz
400 = 400V / 3Ph / 50Hz
415 = 415V / 3Ph / 50Hz
480 = 480V / 3Ph / 60Hz
575 = 575V / 3Ph / 60Hz

Electrical Rating:
N4 = NEMA 4
N7 = NEMA 7
Explosion Proof
ATEX = ATEX

Seal Material:
V = Viton®
B = Buna N

Custom Options:
Z = Custom Equipment (Specified)

Rental Fleet of Systems Available For Quick Shipment

Oil Filtration Systems LLC keeps a large fleet of oil and fuel filtration equipment ready for emergency mobilization anywhere in the world. We have the largest and best maintained fleet of filter carts, flushing skids, oil heaters, vacuum dehydrators, and fuel coalescers in the industry today. Experienced field service technicians can either walk you through easy start-up procedures over the phone, or they can accompany the system to your jobsite to help with start-up, commissioning, and training.

Optional Features

- Electric Control Panel with Illuminated On-Off Switch, “Run” Light, and “Plugged Filter” Light with Automatic System Shut-Down
- Inline Digital Particle Monitor
- USB Port and Software for Downloading Data to a Laptop or PC
- Explosion Proof (NEMA 7, Class 1, Division 1 or Class 1, Division 2)
- ATEX Certified Electric Components
- 304SS or 316SS Material of Construction
- ASME Code Stamped Vessels

Others Systems Manufactured by Oil Filtration Systems

- Vacuum Dehydration Oil Purification Systems (VDOPS)
- Varnish Removal Systems (VRS)
- High Flow Filtration/Flushing Skids
- High Vacuum Transformer Oil Purification Systems

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