



# Rental Equipment and Field Services

- Oil & Fuel Purification
- High Velocity Flushing

## We Are The OEM!

OFS designs, engineers and manufactures all of our equipment. Whether you rent or hire our factory-trained technicians, you can be assured you've got the very best equipment for the job.

Oil Filtration Systems (OFS) offers two approaches to providing important preventive maintenance for your rotating equipment. You can rent our equipment, or you can hire us to provide oil / fuel filtration or oil flushing services. Either way, you can benefit from the world's most innovative filtration equipment and from our sophisticated oil and fuel analysis.



# Rent the World's Most Advanc

**E**xtend the life of your rotating equipment and cut maintenance costs by reclaiming your oil and other fluids. OFS equipment can remove all water, particulate and other contaminants using the most innovative purification systems in the industry.

## What's in Your Fluid? (We'll Tell You!)

Unlike most purification system suppliers, we perform a sophisticated fluid analysis, using our own proprietary test equipment on your site. We won't just ask you what kind of equipment you think that you need...we will tell you based on our testing and report. Whether you rent or hire our crews to do the entire project, you'll benefit from our in-depth understanding of your fluid, its contaminants, and our equipments' capabilities.

We developed our own analysis equipment because we didn't like what was commercially available for oil analysis. Today, we sell our analysis kits to filtration companies (including our competitors) worldwide!



### Vacuum Dehydration Oil Purification Systems

The ultimate machine to remove particulate, water and dissolved gasses from petroleum and synthetically-based fluids.

- Removes 100% free and emulsified water from oils.
- Removes 90% of dissolved water from oils (to as low as 20 ppm).
- Removes particulate to as low as ISO 12/10/9 with 2.5 Beta(c)  $\geq$  filters.



Your sample will be analyzed using the patch test and a Karl Fischer Titrator to determine particulate and water contamination, assessing an ISO cleanliness code and overall moisture content in PPM.



Sample bottle shows typical contaminated oil with emulsified water and free water at bottom.

# ed Fluid Purification Equipment



**Portable High Flow Filtration Systems**  
Ideal for quickly removing particulate contamination from large reservoirs.



**Fuel Filtration and Coalescer Systems**  
Rapidly removes water and particulate from diesel fuel and fuel oil.



**Portable Low Flow Filtration Systems**  
Compact systems roll to the job to remove free water and particulate from smaller reservoirs.



**Varnish Removal Systems**  
Removes varnish with oxidatively-stable filter media. Absorbs dissolved and suspended oil degradation products that cause varnish.

## Equipment to Purify and Reclaim

- turbine lube oil
- #2 diesel fuel
- Fyrquel® EHC fluid
- gear oil
- hydraulic oil

## Water Removal



**Contaminated Fuel** - emulsified water with free water at bottom

**Filtered Fuel** - sample water less than 20 PPM

## Particulate Removal



**Before** - ISO 22/20/19



**After** - ISO 14/12/09

# Field Services for Filtration and Oil Flushing

Our Factory-Trained Crews Employ the Industry's Most Innovative Equipment

Routine Filtration and High Velocity / Hot Oil Flushing Services are an important part of preventive maintenance for all rotational equipment and systems. The damaging effects of particulate contamination have been well documented with regards to premature component wear



The Field Service Group at Oil Filtration Systems were very knowledgeable about oil cleanliness standards and went above and beyond to get my turbine oil dehydrated and free of particulate so we could operate our Dresser Rand Steam Turbine. ”

— Roger Bishop, Plant Manager  
South Texas Electric Cooperative

and failure. One way to ensure optimal system cleanliness is to perform periodic flushing. By circulating hot oil or a flushing fluid through the piping of a system at a very high flow rate, turbulent flow can be achieved. This dislodges particles that would otherwise cling to the walls during laminar flow. These particles are then removed from the piping as the fluid is circulated through a series of high-efficiency filter elements.



## Turbine Lube Oil Flashes

We have performed numerous Lube Oil Flashes on both gas turbines and steam turbines by General Electric, Siemens-Westinghouse, Toshiba, Alstom, and others. Utilizing our own 2500 GPM Pumping Skids, 120kW heaters, and large filter housings, we are able to quickly and reliably meet or exceed OEM start-up cleanliness specifications of ISO 16/13/10, and our jobs typically take 4 to 7-days or less per turbine. Main feed and return lines vary in size from 2" to 8," which can all be effectively flushed using our equipment.

## EHC System Flashes

Utilizing special filtration systems designed with viton seals specifically for use on phosphate-ester fluids (like Fyrquel); we regularly perform complete EHC System Flashes at power plants around the country.



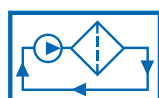
Same day / next day response! We are the "911" of oil and fuel filtration!

## Hydraulic Control Panel / Power Unit Flashes

Before delivering Hydraulic Control Panels or Hydraulic Power Units to a customer, manufacturers must first flush their systems with either hydraulic oil or water glycol to remove all particulate contamination.

## Reservoir Circulation / Cleaning Service

We can provide filtration equipment and manpower to circulate a reservoir (Lube Oil, Hydraulic Oil, Diesel Fuel, etc); quickly achieving very low particle counts to meet or exceed a customer's cleanliness specification. Services include manual wipe-down of the reservoir with lint-free rags, if desired.



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FILTRATION  
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