



Purifying the present

Energizing the future !



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Oil Filtration Services

We would like to introduce ourselves as leading oil filtration service provider for a wide range of industrial oils like.....

- HYDRAULIC OIL
- TRANSFORMER OIL
- LUBE OIL

Go Green with electroil

Effects of used oils.....

Oils leaked or disposed from industries inevitably finds its way into local water bodies. Topsoil and natural vegetation would ordinarily filter many of these pollutants out, but the impermeable pavement that covers much of the surface where these pollutants originate carries it right into storm drains and into streams, rivers, lakes and the ocean where it can poison marine life which we might eat as well as entire riparian or coastal ecosystems.

This pollution also finds its way into underground aquifers that supply our drinking water, so reducing it is a human health measure and could also save municipalities millions of dollars a year in drinking water treatment facilities and operational expenses.

Recycling is the best SOLUTION



Recycling Used Oil Is Good for the Environment and the Economy Re-refining used oil takes only about one-third the energy of refining crude oil to lubricant quality. It takes 42 gallons of crude oil, but only one gallon of used oil, to produce 2 quarts of new, high-quality lubricating oil.

One gallon of used oil processed for fuel contains about 140,000 British Thermal Units (BTUs) of energy.

Why electroil ?

Oil degradation products cannot be removed with conventional mechanical filters because they are submicron particles. It is a fluid in a fluid - like when sugar is dissolved in coffee. This causes several consequences listed below:

Consequences of the Oil Degrading:

- **Shorter oil life**
An increase in the level of oil degradation
Degradation products act as a catalyst
A reduction of additive performance
- **Reduced oil performance**
Loss of lubricity
Valve failure
Restricted oil flow
- **Reduced productivity**
Monday morning problems: slow start-ups
Increased downtime
Reduced machine performance
- **Higher energy consumption**
Friction and wear
- **Increased maintenance costs**
Increased filter change frequency
Increased wear of components
Acidic corrosion in metallic components
Component failures
Cleaning of the oxidation deposits
- **Environmental pollution consequences**
Greater disposal costs of oil and filter changes
Leakages

These degradation products can be removed by our Fine Filters through a combination of adsorption and absorption processes. Our services are competitively priced and are guaranteed to meet or exceed the quality and reliability of any other service provider.

“Good filtration practices result in less downtime and significant cost savings.”

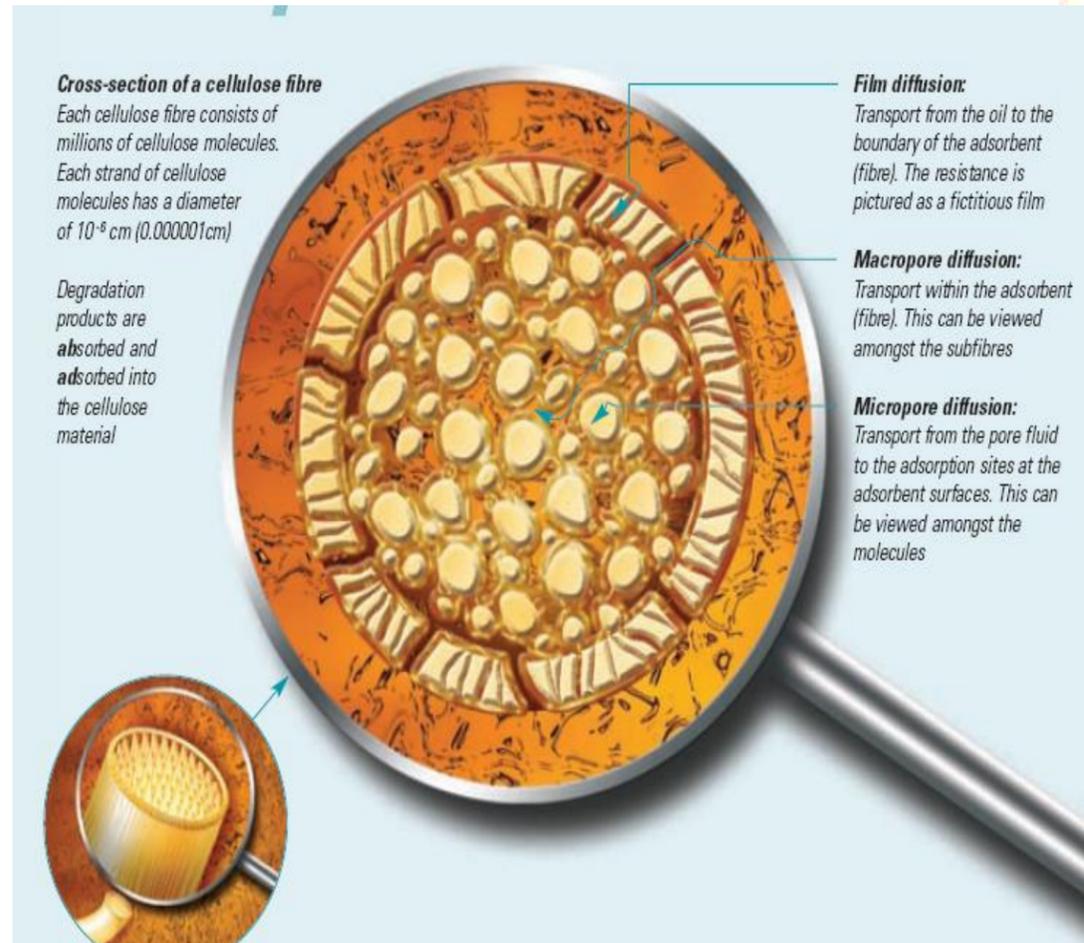
Efficient Filtration.....

Oil degrading is a common problem both in lubrication and hydraulic systems. The main causes of this are typically oxidation (oxygen), hydrolysis (water) and thermal degradation (high temperature). In many cases it is a combination of all three.

Our filtration process

The filter pump draws fluid from the system tank (at lowest point) and presses it through the filter insert. From the centre of the insert the fluid flows through the filter base and returns to the tank. The pressure drop over the filter - and consequently the contaminant absorption of the filter insert - is monitored on the pressure gauge on the filter top. The filter outlet port is placed in the filter base. The filtered fluid should be returned to the tank close to the suction pipe of the main system pump.

Fine Filter Structure



❖ BENEFITS!

- ✓ REDUCES MACHINE REPAIRS
- ✓ REDUCES WASTE OIL DISPOSAL VOLUME
- ✓ REDUCES NEW OIL PURCHASE
- ✓ ENVIRONMENTAL BENEFITS
- ✓ ULTRA FINE FILTRATION WITH WATER REMOVAL CAPABILITY
- ✓ CLEANS OIL SYSTEM GIVING SMOOTH MACHINE OPERATION
- ✓ REDUCED DOWNTIME FROM HYDRAULIC COMPONENT FAILURE
- ✓ EXTENDED COMPONENT AND FLUID LIFE
- ✓ REDUCED OIL DISPLACEMENT AND DISPOSAL COST
- ✓ INCREASES EQUIPMENT AVAILABILITY AND UPTIME
- ✓ PROVIDES SIGNIFICANT ECONOMIC PAYBACK



Pre and Post Filtration Tests

All the essential tests are provided by us, which ensures the reusability of the oil. Some of the tests are.....

- > Viscosity test
- > TAN test
- > BDV test (for insulating fluids)

Before



After



Transformer Overhauling

Periodic overhauling of electrical transformers is desirable during planned shutdown periods which will help in taking preventive measures to avoid any major misshapen and also to increase life of Transformers.

Our Overhauling process includes

- ◇ Disconnecting of bushing connections
- ◇ Isolate cooler and conservator
- ◇ Drag the transformer to service
- ◇ Opening & refitting of transformer
- ◇ Draining of oil from main tank as well as conservator
- ◇ Dismantle all mounting like bushing, cable box etc.
- ◇ Replacement of worn-out rubber parts/gasket etc.
- ◇ Inspection thoroughly
- ◇ Tighten all bolted joints, pressure screws, core and yoke bolts
- ◇ Retaking of the oil
- ◇ Complete physical checking

! Our Recommendation

Electroil highly recommends independent oil analysis every 6 months to ensure the highest oil quality is maintained.

