



## OEI Magnetic Filtration for Power Generation

### REDUCE YOUR OPERATING FOOTPRINT

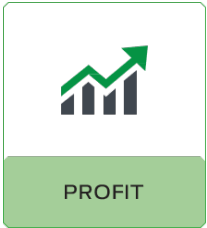
- Clean fluids of wear contamination that causes equipment failure.
- Clean and service OEI filters in the field.
- Fluid life extended 2.5 times.
- Equipment life extended 2.5 times.
- Extend PMs of equipment.
- Minimal consumables required.
- Reduce stocking of fluids and filters.



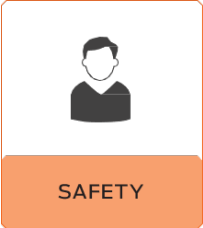
SOLVING TOMORROW'S CHALLENGES, TODAY.

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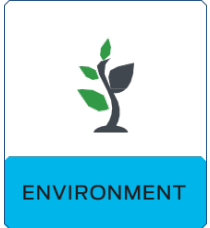
# CORE TECHNOLOGY



Improve equipment reliability and in turn increase profitability.



Reduce unplanned maintenance and improve team safety.



Clean instead of dispose and protect your environment.

The patented, magnetic filter element captures ferrous and non-ferrous wear contamination down to and below 4 microns with up to 95%+ efficiency.

- Cleanable and reusable for 18+ years with minimal consumables.
- Filtration capability exceeds ISO fluid cleanliness standards.
- High dirt holding capacity allowing for longer service intervals.

EXTENDED  
↑

Fluid Life ( av. 2.5x)  
Filter Life  
Equipment Life (av. 2.5x)  
Service Intervals (av. 2.5x)

REDUCED  
↓

Filter Costs  
Fluid Costs  
Disposal Costs  
Labour Costs



# PRODUCT KIT OFFERING

## Lube Oil



### ADD-Vantage 9000

The ADD-Vantage 9000 includes OEI's patented magnetic filter element as well as a stainless steel cloth element. Systems are optimized for fluid viscosity, flow volume, flow rate, temperature, mobility, and mounting requirements. Depending on the application, both "inside-out" and "outside-in" flow control designs are offered.

### Remote Engine Lube Oil Filter

- Designed to match installation of conventional filter downline
- Cleans lube oil to sub-micron level
- Extends life of conventional filter
- Magnetic filter element and stainless-steel cloth element



# PRODUCT KIT OFFERING

## Fuel



### Magnetic Filter Scrubber

Magnetic filter scrubbers employ a magnetic filter element in a specialty housing designed to operate with minimal flow restriction and maximum fluid exposure for high-efficiency filtration. Flow is regulated by the diameter of the inlet-outlet supply pipe as well as fluid velocity. These systems install on suction and return lines of high-pressure and low-pressure applications.

### Pre-cleaning for Fuel Injectors

- Cleans fuel to meet Tier 3 and Tier 4 engine requirements
- Sub-micron fuel filtration
- Protects fuel injectors and nozzles
- Extends life of conventional filters downline
- Full flow
- No flow restriction



# PRODUCT KIT OFFERING

## Coolant



### Magnetic Filter Scrubber

Magnetic filter scrubbers employ a magnetic filter element in a specialty housing designed to operate with minimal flow restriction and maximum fluid exposure for high-efficiency filtration. Flow is regulated by the diameter of the inlet-outlet supply pipe as well as fluid velocity. These systems install on suction and return lines of high-pressure and low-pressure applications.

### Full-flow Engine Coolant Filter

- Full Flow
- Custom Designed
- No Flow Restriction
- No Spillage, tri-clamps are above the coolant level



### Inline Magnetic Filter Scrubber

With a billet aluminum housing, this scrubber installs inline for low-pressure, light viscosity, low-flow applications.



# EXTENDING MAINTENANCE INTERVALS

## FUEL

INJECTORS EXTENDED 6000 HRS  
ACTUATORS EXTENDED 6000 HRS  
CAMSHAFTS EXTENDED 12000 HRS



- At a loading dock, Cummins engines are used to power electric motor generators in the cranes.
- In 18 months, OEI filters extended components:
- Injectors – 6,000 hrs
- Actuators – 6,000 hrs
- Camshafts – 12,000 hrs

[Read Case Study](#)

## LUBE OIL

1500 HP NATURAL GAS SCREW  
COMPRESSOR FILTER SAVES  
\$90,140 IN FIRST YEAR



- Natural gas plant screw compressor required filter changeouts every 3 weeks. Magnetic filter prevented 17 filter changeouts and associated costs.
- Payout in 24 days.
- Annual savings: \$90,140

[Read Case Study](#)

## COOLANT

TURBO CHARGER COOLANT  
LIFE EXTENDED 2-3X



- Turbo coolant system needed better filtration to protect seals and pumps, and to improve cooling and lubrication ability.
- Photo shows contamination collected after 11 hours.
- Captured 27% Oxygen, 32% non-ferrous, 59% ferrous contamination

[Read Case Study](#)

## Deployment:

Dispensers  
Engine Coolant  
Engine Fuel  
Engine Lube Oil  
Gearboxes  
Hydraulics  
Turbines  
Pumps  
Transmissions  
Cooling Systems  
Pneumatics





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