



## OEI Magnetic Filtration for Military Equipment

### 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.
- Reduce storage for fluids and filters.



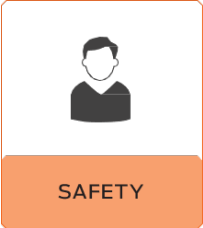
SOLVING TOMORROW'S CHALLENGES, TODAY.

© 2021 One Eye Industries Inc. All rights reserved.

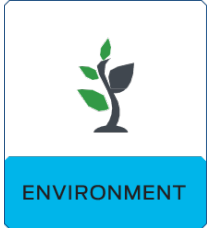
# CORE TECHNOLOGY



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 attract ferrous wear particles down to and below 4 microns ( $\mu$ ) 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



# CORE TECHNOLOGY

## ADD-Vantage 800 High Flow System

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. This specialty ADD-Vantage 9000 design is intended high flow, high volume, light viscosity fluids and oils.



## Magnetic Dual In-line Scrubber

OEI Magnetic Filter Scrubbers employ an OEI Magnetic Filter Element in a special housing that ensures maximum dwell time for high efficiency filtration. These systems install on both suction and return lines of low and high pressure applications.



## Bear Trap Magnetic Filter Pads

The Bear Trap Magnetic Filter Pads attach to existing disposable spin-on filters to trap the contamination (sludge) that wears on system components and causes equipment failure. Capturing the wear contamination under 4 microns will extend fluid life (extending fluid changeout intervals) and equipment life (extending maintenance intervals).



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





# EXTENDING MAINTENANCE INTERVALS

## ENGINE OIL

### OIL CHANGE INTERVALS EXTENDED TO 1000 HOURS



- Transport truck with C15 CAT Engine tested ADD-Vantage 9000 for engine oil and fuel.
- Wear contamination removed allowed for engine oil changes to extend from 250 hours to 700 hours and then to target 1200 hours.

[Read Case Study](#)

## ENGINE FUEL

### FUEL CLEANLINESS IMPROVED ENGINE PROTECTED



- Transport truck with N-14 Cummins Engine tested Fleetguard filter against OEI ADD-Vantage 9000
- 5 micron particles reduced 75.0%
- 15 micron particles reduced 68.6%
- 25 micron particles reduced 43.0%

[Read Case Study](#)

## FUEL DISPENSER

### FUEL CLEANED PRIOR TO DISPENSING



- Mining equipment required filtration for the fuel coming out of the fuel dispensing tanks.
- After 2000 gallons, the OEI filter successfully captured contamination that would damage injector and pump components.

[Read Case Study](#)

### Deployment:

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



# EXTENDING MAINTENANCE INTERVALS

## Coolant

NO PUMP FAILURES FOR 4 YEARS, SAVES \$350,000



- Coil tube truck had a dirty coolant circulation system running 75 gpm at 150 psi, the pump failed 3x in 7 years.
- With OEI, no failures for 4 years.
- \$350,000 cost savings
- Pump component life extended 1.7x.

[Read Case Study](#)

## Hydraulics

ISO REDUCED FROM 25/24/16 TO 17/14/10 IN 3 HOURS



- Needed to clean 6000 L of hydraulic fluid on site within 3 hour PM period.
- Kidney loop beat ISO cleanliness standard of 18/16/13 and cleaned the fluid to 17/14/10 within 3 hours.

[Read Case Study](#)

## Gearbox

\$14 MILLION SAVINGS from \$17K INVESTMENT on GEARBOX REPLACEMENTS



- Haul trucks had bearing failures 1-3/week.
- Site operates 92 haul trucks at 15 hours/day.
- Magnetic filters prevented failures for 2 years.
- 2-year savings from failures prevented: **\$14,144,000**

[Read Case Study](#)

## Deployment:

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



SOLVING TOMORROW'S CHALLENGES, TODAY.

© 2021 One Eye Industries Inc. All rights reserved.