



CASE STUDY

CUSTOMER

PIONEER NATURAL RESOURCES

LOCATION

TX, USA / 2014

EQUIPMENT

NEW STIMULATION PUMPER

APPLICATION

FUEL, COOLANT, TRANSMISSION FLUID, ENGINE OIL

ROI

\$

PM PERIODS
EXTENDED

300 HOURS
TO
600 HOURS



CHALLENGE

The critical system components on Pioneer Natural Resources' new build frac pumper have tolerances under 4 microns. Traditional depth-media filtration is unable to effectively filter contamination under 10 microns in size. To prevent unscheduled downtime and maintenance, Dan Stoye, Maintenance Manager for PNR, decided to outfit the frac pumper with OEI magnetic filtration.

SOLUTION

Application	Fluid	Magnetic Filter	Value
3512 CAT Engine	Fuel	ADD-Vantage 9000	Improved burn efficiency, reduced premature actuator and camshaft wear, reduced emissions.
3512 CAT Engine	Oil	ADD-Vantage 9000	Prevent wear of bearings, shafts, and sleeves.
3512 CAT Engine	Coolant	Magnetic Filter Y-Strainer	Prevent degraded glycol, plugged radiators, and premature wear of pump, coolant jacket, and seals. If an auxiliary heater is attached to the coolant system the contamination will cause the circulating pump to fail.
TH55-E70 CAT Transmission	Fluid	25RCAT-9P5925 Magnetic Filter Element on Mounting Plate	Protect both the pump and systems downline from wear contamination.
FMC WQ2700 Quintuplex Pump	Lube Oil	Magnetic Filter Scrubber	Prevent premature pump, bearings and drive end wear and eventual failure.



RESULTS

The photos show contamination collected from 5 applications after 300 hours of operation. Planned maintenance intervals have extended from 250 hours to 600 hours.



ENGINE OIL



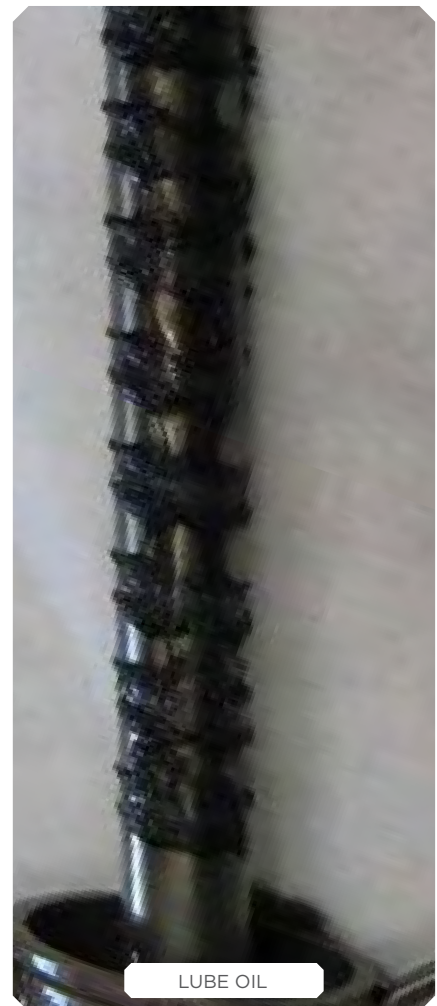
COOLANT



TRANSMISSION FLUID



FUEL



LUBE OIL



PRODUCT RECOMMENDATIONS

**ADD-VANTAGE 9000
MAGNETIC FILTER ELEMENT
MAGNETIC FILTER SCRUBBER
MAGNETIC FILTER Y-STRAINER**

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