

The Values of Magnetic Filtration

Heavy Industry Realizations:

- Technology advances annually in manufacturing and materials
- Tolerances for components such as bearings and valves are precise: bearings and valves are under 4 microns
- Wear contamination causes 80% of rotating equipment failure
- 70% of diesel engine failure is caused by coolant system failures
- Wear contaminants are primarily comprised of: iron, steel and silica
- Sources of wear contamination are: new fluids and lube oil, manufacturing, air ingress and break in wear
- ISO Standards for oil analysis identify wear contamination as 4 microns in size and higher - when were they developed? Are they still applicable?

Heavy industry realizations of traditional filtration methods:

- Inefficient in removing wear contamination under 10 microns for full flow applications
- Quickly plug off and go into by-pass with minimal contamination saturation
- Subject to worm holing and channeling
- Contribute to a negative environmental footprint
- Frequent service intervals increase the opportunity for injury

New Realizations of Magnetic Filtration Capabilities

- Minimal flow restriction provides efficient removal of iron, steel and silica wear contamination under 1 micron in full flow and by-pass applications
- Cleanable with an operational life of 16+ years
- High contamination holding capacity without requiring cleaning
- Operate with minimal flow restriction
- Employable where traditional filtration is inapplicable
- Reduces opportunity for varnish production
- Extended fluid and operational life means extended service intervals and reduced opportunity for injury
- Predictive maintenance tools
- Key to successful condition-based monitoring
- Positive environmental impact

