



Pall Corporation



Magnetic Filter Cores

A novel approach to proactive maintenance

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The generation of ferrous contaminants in most hydraulic and lube systems due to both normal and abnormal wear is a fact of life. Knowing the amount and type of wear particles in the fluid system is paramount to avoiding unscheduled outages. Standard filter elements will capture any type of particulate contamination, ferrous and non-ferrous, within their media matrix according to their micron rating. Identification of the contamination captured typically requires off-site laboratory analyses.

Built-in magnetic filter cores can capture ferrous contaminants in fluid systems, down to $< 1 \mu m$, before they reach the actual filter, thus providing an excellent diagnostic tool for contamination monitoring and proactive maintenance. Due to static adhesion, the cores can also retain some of the non-ferrous contaminants. By simply removing the magnetic core and examining the contamination retained on it under a microscope, reliability and maintenance engineers across many industries now have a valuable tool for identifying potential wear-related issues before they become a real problem.