

Electrostatic Oil Cleaners

The Problem: Oxidation

As your machine runs, a chemical process called *oxidation* occurs forming tar, varnish, or sludge.

Tar and varnish are sticky substances that adhere to component surfaces causing sticking and additional wear.

Products of oil oxidation coat the hydraulic servo, proportional, and cartridge valves forcing the friction in these valves to increase. The change in friction in these highly sensitive, close tolerance components causes unwanted effects, including:

- Loss of control stability
- Constant valve adjustment
- Reduced machine performance
- Erratic cycle times
- Machine downtime
- Slow start-ups



Oxidation within an oil reservoir.

If it's in your reservoir, it's in your entire system

The Solution: CM-DOC

Electrostatic oil cleaners have the unique ability to draw contaminants of all sizes out of the oil, trapping them on the surface of the collector. This removal of all in soluble contaminants including tars and varnishes allows you to maximize your control for ultimate machine performance.

Traditional mechanical filters remove only larger particles, while electrostatic systems are particle size independent, removing submicronic particles as well as large contaminants from any non-conductive liquid. Only insoluble oil contaminants are extracted; soluble additives that are present in the oil are not affected. Because this system is so effective in maintaining the cleanliness level of oil, CM-DOC eliminates the need for repeated oil changes and system downtime. A CM-DOC operates without supervision.

The collector is housed within a stainless steel chamber. Each collector is made of disposable cellulose fiber and is pleated to hold the greatest quantity of contaminants. Collectors can hold as much as 10 pounds before a change is required and will furnish 2,000 to 8,000 hours of use depending upon your application.



Standard Units

Oil Viscosity						
Method	CSt SUS		CSt SUS		CSt SUS	
Temperature	40C 100F		40C 100F		40C 100F	
Grade	32	150	46	210	100	460
Unit Type	** Gallons of Oil	GPH	WxLxH	Weight	Voltage	
**Gallons of Oil						
CM-DOC-R3	70	15	11.1x14x27	48	115/1/60	
CM-DOC-N10	1050	30	13.75x21.5x21.5	140	115/1/60	
CM-DOC-N25	2550	90	15.75x26.9x30.4	163	115/1/60	
CM-DOC-N50	5050	168	15.75x27.9x30.4	235	115/1/60	

**Unit capacity may vary depending upon application. Performance specifications based upon units with pump options and oil at 140 F (60 C) or less.