

\$41,400 Saved in Rebuild Cost with **FILTERMAG**[®]

7-Ft. Rock Crusher



50% Life Extension

In complex equipment with a unified lubrication system, capturing wear causing particles that will pass through an ordinary oil filter can substantially reduce wear throughout the equipment.

If you remove the hard particles from the oil, components made of softer materials will last longer. The result is more reliable equipment with a longer service life. **FilterMag captures the normally generated, hard, wear causing particles your oil filter can't.**

Proven Results

FILTERMAG[®]
INDUSTRIAL PRODUCTS DIVISION

- **\$41,400 Saved in Rebuild Costs**
- **98% Reduction in Particle Contamination**

Case Study Details: 7-Ft. Rock Crusher

One pair of FilterMag XT8s were installed one each of the crusher's standard duplex filters. Oil samples were taken at the time of installation and verified as being in the normal range for the crusher. The oil was re-sampled after 70 hours of operation with no other changes made.

Particles counts dropped 98%. PQ index dropped 96%.

All wear metal numbers also dropped significantly. The softer wear metals decreased primarily because of the reduction in the iron particles. Full oil analysis supports the concept of significantly reduced wear throughout the crusher.

Based on Noria estimated life extension charts, this crusher could last 50% longer than it's currently expected service life. That longer life would equate to a savings of \$41,400 and a significantly reduced operating cost.

Cleaner oil also means higher reliability. If the reduced contamination levels prevent just one outage over the entire life of the machine, the FilterMags would be paid for.

Test Results Summary

	Before FilterMag	After FilterMag	Reduction
ISO 4406 Rating	25/22/16	20/18/13	
> 4 micron	912,192	26,666	97%
> 6 micron	139,356	3,264	98%
> 14 micron	341	98	71%
Rotrode Filter Spectroscopy (course metals up to 40 microns)			
Iron	1,374 ppm	290 ppm	79%
Copper	243 ppm	138 ppm	43%
Lead	1,064 ppm	555 ppm	48%
Tin	587 ppm	428 ppm	27%
PQ Index	109	5	96%

These results are averages from two separate 7-ft. rock crusher evaluations.

Reduction in nonmagnetic materials is primarily due to a large reduction in hardened steel particles. Remove these and the life of all material they encounter can be greatly extended.



Millions of microscopic particles captured by FilterMag in only 70 hours of crusher operations. Most are small enough to pass through the filter.

FilterMag International, Inc.

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Reduce Wear • Mitigate Damage • Increase Reliability • Extend Equipment Life

Spin-on Filters USE **CT**



Applications:

- Gas and Diesel Engines • Rotating Equipment
- Hydraulic Systems • Diesel Fuel Filtration
- For most spin-on filter applications

Order part # based on oil filter diameter

Pairs		Fits Spin-on Filter Diameters		Dimensions			
Part #	Qty.	Minimum	Maximum	Height	Thickness	Arc (Max)	Weight
CT3.2PR	2-ea.	2.9 in (74 mm)	3.5 in (89 mm)	2.65 in (67 mm)	.34 in (8.6 mm)	360°	18 oz (.52 kg)
CT3.8PR	2-ea.	3.6 in (91 mm)	4.4 in (112 mm)	2.65 in (67 mm)	.35 in (8.9 mm)	360°	28 oz (.80 kg)
CT4.9PR	2-ea.	4.5 in (114 mm)	5.5 in (140 mm)	2.95 in (75 mm)	.36 in (9.1 mm)	360°	38 oz (1.08 kg)

Cartridge Filters USE **XT**



Applications:

- Rotating Equipment • Hydraulic Systems
- Gas & Diesel Engines • For most cartridge filters

Order part # based on outside diameter of filter housing

Pairs		Fits Outside Housing Diameters		Dimensions			
Part#	Qty.	Minimum	Maximum	Height: Faceplate/Endcap	Thickness: Faceplate/Endcap	Arc (Max)	Weight
XT4PR	2-ea.	3.8 in (96 mm)	4.8 in (122 mm)	2.7" (68mm)/3.24" (82mm)	.9"(23mm)/1.4" (36mm)	330°	7.0 lb (3.2 kg)
XT5PR	2-ea.	4.8 in (122 mm)	5.8 in (147 mm)	2.7" (68mm)/3.24" (82mm)	.9"(23mm)/1.4" (36mm)	340°	9.0 lb (4.1 kg)
XT6PR	2-ea.	5.8 in (147 mm)	6.8 in (173 mm)	2.7" (68mm)/3.24" (82mm)	.9"(23mm)/1.4" (36mm)	344°	11.0 lb (5.0 kg)
XT7PR	2-ea.	6.8 in (173 mm)	7.8 in (198 mm)	2.7" (68mm)/3.24" (82mm)	.9"(23mm)/1.4" (36mm)	348°	13.0 lb (5.9 kg)
XT8PR	2-ea.	7.8 in (198 mm)	8.8 in (224 mm)	2.7" (68mm)/3.24" (82mm)	.9"(23mm)/1.4" (36mm)	350°	15.0 lb. (6.8 kg)

Easy CT Installation: SNAP ON, SLIDE OFF, REUSE



1. Install two or more FilterMags on each spin-on filter opposite each other near the threaded end.
2. Reuse FilterMags by sliding them off the old filter and snapping them on a new one when the filter is changed.

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