



CASE STUDY

CUSTOMER

CEMENT MINE

LOCATION

SOUTH AFRICA / 2016

EQUIPMENT

OIL DRUMS

APPLICATION

MOLUB-ALLOY 8031-3000 OPEN GEAR OIL

ROI



OIL CONSUMPTION
REDUCED FROM
6 TO 3.5 DRUMS /
YEAR

SAVINGS
\$7,500
PER YEAR

CHALLENGE

A cement mine consumed 6 drums/year of Molub-Alloy 8031-3000 open gear oil-base gel, > 78,000 cPs, at a cost of \$12,000 USD/year. Traditional filtration is unable to sufficiently filter this oil gel at the necessary flow rate; also, insufficient filtration results in a one time product life. The gel was disposed of as a waste grease which has a significant environmental footprint.

SOLUTION

Apply an OEI magnetic scrubber in conjunction with the original traditional filtration to clean the oil when it is transferred to a clean drum.

RESULTS

When cleaned, 75% of the oil in the first drum is recovered. This solution allows for the recycling of the oil 2-3 times over, it is eventually disposed of as used oil rather than waste grease

Three OEM's approved the addition of the OEI magnetic scrubber. When the oil gel cycled through the OEI filter, ferrous and non-ferrous contamination was captured down to submicron levels. Oil consumption was reduced by 3.75 drums/year saving over \$7500 USD. OEI filtration increases component life, lowers consumption and reduces disposal costs and the company's carbon footprint.



Sample	Iron	Chromium	Nickel	Molybdenum	Aluminium	Copper	Tin	Lead	Titanium	PQ Index	Bismuth	
1	1607	6	3	1159	162	3	0	2	12	17919	2	Before filtering
	813	5	3	1057	48	2	0	0	1	2467	1	After first filtering
	106	2	1	1056	21	1	0	0	1	897	1	After second filtering



PRODUCT
RECOMMENDATION
**MAGNETIC
FILTER SCRUBBER**

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