Donaldson Hy-Pro Element Upgrade Outperforms OE in Copper Mine

The Problem

A high-production copper mine relied on a lubrication system for their Nordberg® MP Series™ crusher*. This system used a duplex filter assembly with eight elements manufactured by a competitor.

The Solution

Donaldson Hy-Pro, along with our distributor, proactively approached the mining company with an alternative filtration solution. In line with The Donaldson Hy-Pro Way of doing business, we proposed a comprehensive solution that would address common issues with the current filter element.

The Donaldson Hy-Pro element uses a proprietary design upgrade to increase filter efficiency and durability. This improvement offered significant cost-saving benefits for the mining company.

ANNUAL ELEMENT COST

Donaldson HY-PRO™	Competitor
$160,271	$310,271

$150,000 SAVINGS ANNUALLY

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The Results

The Donaldson Hy-Pro element delivered exceptional results for the copper mine:

OIL CONSUMPTION REDUCED BY 1/3 RESULTING IN A ANNUALLY SAVINGS OF $220,020

PUMP REPLACEMENTS CUT IN HALF **$127,500 ANNUAL SAVINGS**

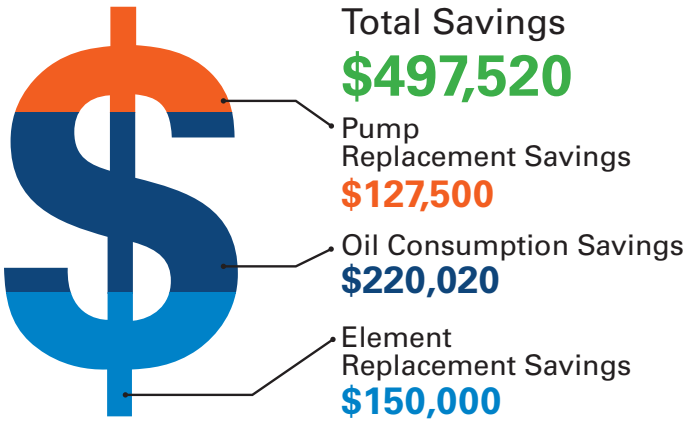
96.4% REDUCTION IN PARTICLES 4 MICRONS OR LARGER

RESULTING IN EXTENDED ELEMENT LIFESPAN

- **Reduced Element Cost:** Switching from the competitor element, $310,271, to Donaldson Hy-Pro HPQ340083, $160,271, the company was able to save $150,000 annually.
- **Extended Oil Life**: Oil consumption was reduced by one-third, resulting in cost savings of $220,020 annually.
- **Fewer Pump Replacements:** Pump replacements were cut in half, translating to annual savings of $127,500.
- **Improved Filtration Performance:** The Donaldson Hy-Pro elements achieved a 96.4% reduction in particles 4 microns and larger, along with extended element lifespan.
- **Enhanced System Cleanliness:** ISO cleanliness codes improved significantly, indicating cleaner oil and reduced wear on system components.

The Conclusion

The Donaldson Hy-Pro element surpassed the alternative in every respect. Our solution provided superior filtration performance, reduced operating costs, and extended the life of critical system components. This case study demonstrates the value of Donaldson Hy-Pro's filtration solutions and our commitment to proactive customer service.



Donaldson HY-PRO™

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