

## The Leader in Industrial Magnetic Filtration

Case Study: Compressor Lube Oil November 2013-January 2014





## Eni S.p.A Ravenna, Italy

**PROBLEM:** Oil analysis identified a high level of wear contamination in the NP#2 compressor lube oil. If left in the system will cause premature wear of the compressor components. Traditional filtration was unable to remove this contamination under 10 microns and the most damaging contamination is iron and steel under 10 microns. The inefficient disposable elements caused increased change outs and maintenance intervals.

**SOLUTION:** Alex Priori of Renox, OEI distributor, suggested a test installation of their magnetic rod in the existing housing to remove the wear contaminants to sub-micron levels and extend the change out and maintenance intervals.

**RESULTS:** The ROI is clearly identified as the decrease in wear contaminants reduced the wear on the compressor components, decreased element change out and extended maintenance intervals.

**RECOMMENDATION:** Although this test was successful with the one magnetic filter rod we suggest the installation of a properly fitted complete magnetic filtration system which would provide removal efficiency of 97+%. The results will include extended oil and component life and increased maintenance interval.

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