

Mobil SHC Rarus™ 68 oil helped save US \$6,766 annually

Singapore Oxygen Air Liquide Pte. Ltd. (SOXAL) | Kaeser DS 170 rotary screw compressor



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After a two-year trial on a Kaeser OS 170 rotary screw compressor, Mobil SHC Rarus™ 68 air compressor oil was still in good condition. It enabled SOXAL to extend its oil drain interval (ODI) by up to 2.5 times and save US \$6,766 annually.

Situation

ExxonMobil proposed Mobil SHC Rarus™ 68 oil as a candidate trial oil in a Kaeser OS 170 rotary screw compressor for two years. The trial assessed Mobil SHC Rarus 68 oil for its performance versus the current product in use, productivity and ODI. Previously, the compressor was using ISO VG68 synthetic oil, and the ODI was 6,000 hours. Flushing of the system ensured the minimum commingling between the current oil and test oil. The used oil samples were collected on regular intervals and sent to the Mobil Serv™ laboratory for analysis.

Recommendation

Mobil SHC Rarus 68 oil was recommended to help increase productivity, improve equipment reliability and provide the potential to deliver up to three times the ODI versus a leading synthetic compressor lubricant. The lubricant's outstanding oxidation stability, excellent varnish and sludge control, exceptional resistance to rusting and corrosion, and very good antiwear properties help to extend compressor oil life.

Impact

Mobil Serv™ Lubricant Analysis results showed that Mobil SHC Rarus 68 oil was still in good condition with stable viscosity (@ 40°C), low oxidation level, low TAN and low metal wear after operating for two years. The ODI of 14,000 hours was extended up to 2.5 times the original ODI of 6,000 hours. Mobil SHC Rarus 68 oil helped to improve productivity, increase equipment reliability and ultimately save SOXAL US \$6,766 annually.

Oil drain interval (ODI)
extended by up to

2.5X