

Customer Testimonial



Monolec® R & O Compressor / Turbine Oil (6405)

Kenosha Water Utility – Kenosha, Wis.

Roots 100 hp Blower

- Saved \$1,420 per year on one blower
- Extended drain intervals from six months to one year

Customer Profile

The Kenosha Water Utility, a municipal water service and water pollution control facility, has been an LE customer since June 1993.

Application

The Roots model 12-16 positive displacement blower runs continuously. Other blowers throughout the facility run intermittently.

Challenge

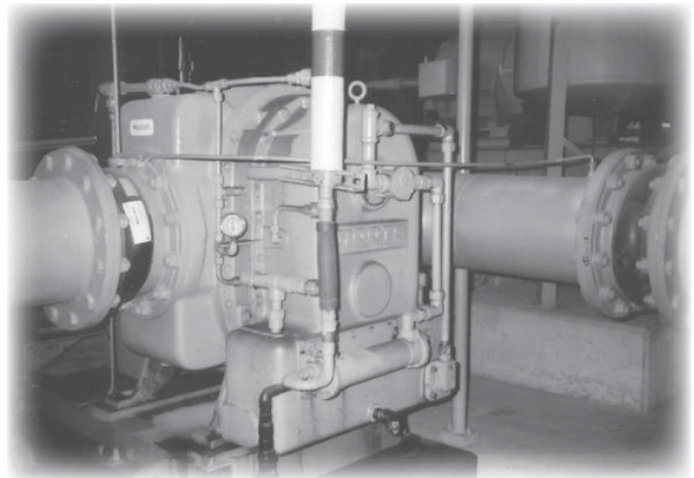
Dennis Harmer, plant superintendent of water resources, was looking for ways to save money on electrical energy costs. He was interested in what LE's ZAP Energy Savings Program could do for him, so he set up his own testing. A recorder was put on the Roots blower while it was still using the commercial grade oil. Readings were taken for three weeks. A popular oil booster additive was then added to the commercial oil, and the unit was recorded another three weeks.

LE Solution

The local LE lubrication consultant recommended LE's Monolec® R & O Compressor / Turbine Oil (6405) in the Roots blower. Monolec 6405 contains Monolec, LE's proprietary liquid wear-reducing additive, which increases the oil film strength as high as four times that of commercial grade lubricants. Monolec 6405 also has superior rust and oxidation resistance.

Results

The same recorder was used to measure amperage after the blower was thoroughly flushed and refilled with Monolec 6405.



Test results on the units were as follows:

<u>Commercial Oil</u>	<u>Commercial Oil w/Booster</u>	<u>Monolec 6405</u>
36,448 kWh	36,576 kWh	34,400 kWh

Adding an oil booster to the commercial oil did not reduce electrical consumption of the unit; instead, it caused a slight increase. Switching to Monolec 6405, however, resulted in a 5.6% energy reduction (2,048 kWh) in the three-week period, as compared to the commercial oil without booster.



At an electric rate of \$0.04, this three-week reduction adds up to \$1,420 in annual savings on one blower.

In addition to saving on electrical energy costs with Monolec R & O Compressor / Turbine Oil (6405), Kenosha Water Utility extended drain intervals from six months with the previous commercial grade product to up to one year with LE.

Thank you to Dennis Harmer, plant superintendent of water resources, and Mike Gentry, LE lubrication consultant (pictured), for providing the information used in this report.



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Based on actual user experience. Individual results may vary. Not intended to supersede manufacturer specifications.

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