

6404 & 6405 MONOLEC® R & O COMPRESSOR / TURBINE OIL

SEWAGE PLANT, PITTSBURGH, PA

Root Blower & Lightnin Mixers • SIC 4952 Sewerage Systems

**AN ELECTRICAL SAVING OF \$4,899 PER YEAR ON THE THREE BLOWERS
WHICH OPERATE 24 HOURS A DAY, YEAR-ROUND**

CUSTOMER TESTIMONIAL

CUSTOMER PROFILE

This Sewage Plant in the North Hills suburb of Pittsburgh, PA has experienced a number of benefits by using LE's MONOLEC Compressor / Turbine Oils.

APPLICATION

Average daily flow of sewage through the plant is six million gallons. LE's MONOLEC R & O Compressor / Turbine Oils are used successfully in seven Roots blowers, size 10x16JV and 12 Lightnin mixers. The Roots blowers have 100 hp motors. The Lightnin mixers are coupled to 50 hp electric motors.

AREA OF CONCERN

The maintenance personnel wanted to see a temperature reduction on the Roots air blowers. In addition, they wanted an amperage reduction on the Lightnin mixers. The initial amperage reduction survey was conducted on three Roots blowers and six Lightnin mixers.

LE SOLUTION

LE's 6405 MONOLEC R & O Compressor / Turbine Oil was recommended for the Roots blowers. Amperage readings were recorded three times daily, over a two-week period, with the commercial grade lubricant. The blowers were drained of the commercial oil and LE's 6405 was installed.

LE's 6404 MONOLEC R & O Compressor / Turbine Oil was recommended for the Lightnin mixers.

CUSTOMER COST SAVINGS

Once converted, blower temperatures decreased 25°F., and there was a 5% reduction in amperage using LE's 6405 versus the commercial grade lubricant. After a period of two weeks, amperage readings were again recorded three times daily. The 5% amperage reduction remained steady. An electrical saving of \$4,899 per year was realized on the three blowers which operate 24 hours a day, year-round. In addition, they safely increased the drain intervals from six months to 24 months by the use of oil analysis.

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A test was performed on one of the mixers to see the results of converting to LE's 6404. First they recorded the three amperage readings daily, over a two-week period, using the commercial grade lubricant. The average amperage was 46.8 amps.

They then converted to LE's 6404. After two weeks of run time, the amperage was again taken using a digital amp meter. LE's 6404 yielded an average amperage reading over the two week test period of 44.9 amps, a 4.06% decrease. It was projected by LE Representative Larry Boyle and the Plant Engineer that LE's 6404 MONOLEC® R & O Compressor / Turbine Oil will save the wastewater treatment plant \$3,977 annually on all six mixers which operate 24 hours a day year-round.

The manager also commented that the mixers were running quieter after converting to LE's 6404. Old drain intervals have increased from six

months with the previous oil to four years or 32,000 hours with 6404. Oil tests reveal very low wear and plant personnel love the labor savings realized over a four-year period.

OTHER PRODUCTS USED

Because of the excellent results with LE's MONOLEC® R & O Compressor / Turbine Oils, the customer is also using LE's 3751 ALMAGARD® Vari-Purpose Lubricant throughout the plant. Lubricant consumption has been cut by two-thirds over the previous plant grease. Upon completion of a plant lubrication survey, management initiated the use of LE's 607 ALMASOL® Vari-Purpose Lubricant in all gearboxes requiring an SAE 90 gear oil. LE's 9102 SYNTEMP® Synthetic Lubricant is used on all cables and drive chains. LE's 6404 MONOLEC R & O Compressor / Turbine Oil has provided trouble-free service in the plant reciprocating air compressors.



Larry Boyle

We wish to thank the Maintenance Personnel at this Sewage Plant and LE Representative Larry Boyle for providing information to prepare this report.

Based on actual user experience. Individual results may vary. Product used not intended to supersede manufacturer's specifications.

Testimonial based on actual user experience and individual results may vary. Not intended to supersede manufacturer's specifications which may differ from those of product used.