



Monolec® R & O Compressor / Turbine Oil (6401)

City of Lockport WWTP – New York

Lampson 300 HP 5-Stage Blowers

- **Reduced operating temperatures**

Customer Profile

Located in Niagara County in western New York State, the City of Lockport, NY, Wastewater Treatment Plant has an activated sludge process. The plant is rated for 40 million gallons per day, and has an average flow of 12 million gallons per day. Mike Diel is the plant operator and Paul Sharky is the maintenance supervisor.

Application

Three Lampson 300 hp 5-stage blowers used in the plant went on line in 1993.

Challenge

While using a commercial grade lubricant, the blowers would get so hot that they would shut down automatically.

LE Solution

In the fall of 1993, Don Wilkens, LE lubrication consultant, recommended Monolec® R & O Compressor / Turbine Oil (6401) for these units, and it was installed at that time. The plant personnel noted that the bearing temperature was lower and remained well below the automatic shut down point. These blowers operate 365 days a year, 24 hours a day to provide a constant dissolved oxygen level in the aeration basins.

Results

With the lower temperatures, especially in the summer months, the electrical demand rate remains more consistent, saving thousands of dollars in electrical energy costs.

Other Products Used

Another piece of equipment located at the City of Lockport WWTP is a Sullair model 10-30 Sulliscrew air compressor.

The manufacturer recommends a 1,000-hr drain interval. In the fall of 1987, this unit was converted to Monolec® R & O Compressor / Turbine Oil (6403). Using oil analysis, the drain interval was safely extended to 3,500 hrs with the oil still in good condition. While the oil was still suitable for continued use, it was drained as the City of Lockport WWTP had reached the expected performance level, and the oil temperature had dropped 15°F.

Thank you to Mike Diel, plant operator, Paul Sharky, maintenance supervisor, and to Don Wilkens, 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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