



Monolec® R & O Compressor / Turbine Oil (6403)

Water Supply Company – Los Angeles County, Calif.

U.S. Motors 125 hp Motor

- Saved \$408.96 annually in electrical costs

Customer Profile

A water supply company in Los Angeles County, California, pumps ground water to a large area of customers.

Application

The company was very interested in saving electrical energy cost for their U.S. Motors 125 hp motor, that powered the pump which provides the customers with water.

Challenge

They were using entirely too much electricity and oil to protect their equipment.

Solution

They were using a commercial grade ISO 100 oil to their satisfaction, but based on the ZAP Energy Savings Program presented by the local LE lubrication consultant, and anticipated electrical energy costs, they decided to convert to Monolec® R & O Compressor / Turbine Oil (6403).

Results

Amperage readings were taken on the U.S. Motors 125 hp unit while the commercial grade lubricant was still in the unit. The customer then drained the unit, flushed and filled the unit with Monolec 6403. Amperage readings were again taken and a 1.9 amp drop was recorded. The savings in electrical energy is calculated below.

The following formula is used to find the cost of a unit's electrical consumption. This is the same formula used by the local utility.

$$\begin{aligned} \text{kW Savings} &= \text{Volts} \times \text{Amps Saved} \times 1.73^* \\ \text{Annual kWh Savings} &= \text{kW Savings} \times \text{Hours of Operation Per Year} \\ \text{Annual Electrical Savings} &= \text{Annual kWh Savings} \times \text{Electrical Charge} \\ & \text{*Conversion factor for a 3-phase source} \end{aligned}$$

$$\frac{1.9 \text{ Amps} \times 480 \text{ Volts} \times 1.73^* \times 24 \text{ hours} \times 135 \text{ days} \times \$0.08}{1000 \quad \text{Day} \quad \text{Year} \quad \text{kW hour}} = \$408.96 \text{ annually}$$

Thank you to Andy Hutt, LE lubrication consultant (pictured), for providing the information used in this report.





Monolec® is a registered trademark of Lubrication Engineers, Inc.

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

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