

6403 MONOLEC® R & O COMPRESSOR / TURBINE OIL

WATER SUPPLY COMPANY LA COUNTY, CA

Westinghouse 125 hp Electric Vertical Motor • SIC 4941 Water Supply

CUSTOMER PROFILE

A local LE Representative services a Water Supply Company in Los Angeles County, CA. This company operates pumps to supply residential and business users with ground water.

APPLICATION

They were using a Westinghouse 125 hp electrical vertical motor on one of the water pumps.

AREA OF CONCERN

They were very interested in reducing their electric power costs.

LE SOLUTION

When the local LE Representative proposed the benefits of ZAP, LE's Energy Saving Program to this company, they decided to convert the pump to LE's 6403 MONOLEC R & O Compressor / Turbine Oil. This lubricant offers excellent oxidation resistance, does not emulsify with water and contains MONOLEC, LE's exclusive friction and wear-reducing additive.

CUSTOMER COST SAVINGS

Prior to converting to LE's 6403 MONOLEC R & O Compressor / Turbine Oil, amperage readings were taken on the unit under full load conditions. The units were then drained warm, flushed and filled with LE's 6403. Again amperage readings were taken under full load and a 3 amp drop was recorded in the Westinghouse unit. 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.

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

$$\frac{3 \text{ Amps}}{1000} \times \frac{480 \text{ Volts}}{1000} \times \frac{1.73^*}{1000} \times \frac{24 \text{ hours}}{\text{Day}} \times \frac{180 \text{ days}}{\text{Year}} \times \frac{\$0.042}{\text{kW hour}} = \underline{\underline{\$452.00 \text{ Annually}}}$$

LE'S 6403 MONOLEC® R & O COMPRESSOR / TURBINE OIL SAVES \$452 ANNUALLY

We wish to thank LE Representative Andy Hutt (pictured) 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.

