

6802 MULTILEC® INDUSTRIAL OIL**GRAND BLANC PRINTING, Grand Blanc, MI****Quincy QST-30 30Hp Air Compressor • SIC 2752 Commercial Printing****SAVING \$1,410.83 ANNUALLY IN ELECTRICAL CONSUMPTION****CUSTOMER PROFILE**

Grand Blanc Printing is a commercial printer that prints newspapers, coupon books, advertising materials and tabloid advertising flyers. They have been an LE customer since 1999.

APPLICATION

Quincy Model QST-30 Rotary Screw Compressor driven by a 30 HP, 460 v., 1750 RPM, 60 Hz, 3 Ph motor that runs 24 hours a day, 5 ½ days a week.

AREA OF INTEREST

- Factory recommended synthetic oil required changes at three-month intervals.
- Due to the work schedule, oil changes done on Saturdays on overtime basis.
- Interested in air compressor oil that would provide extended drain interval.
- Potential energy savings

LE SOLUTION**6802 MULTILEC Industrial Oil**

- Made from premium paraffinic base oils
 - Outstanding rust and oxidation resistance
 - Excellent water separation ability



- Contains MONOLEC to reduce friction, which in turn reduces heat and saves energy.
- ZAP Energy Savings Program

CUSTOMER COST SAVINGS

To provide data to compute the ZAP Savings a reading of 29 amps was recorded on the compressor. The reservoir was then drained, flushed and refilled with LE's 6802 MULTILEC Industrial Oil. Once the compressor had been run, a new reading of 26 amps was recorded. **This revealed a 3 -amp decrease -- a 10 percent savings in electrical power.**

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The following formula was used to find the cost savings based on the unit's electrical consumption. This is the same formula used by the local utility company.

$$\begin{aligned} & (\text{Volts}/1000) \times \text{Amperes Saved} \times 1.73^* = \text{kW Savings} \\ & \text{kW Savings} \times \text{Hours of Operation Per Year} = \text{Annual kWh Savings} \\ & \text{Annual kWh Savings} \times \text{Electrical Rate} = \text{Annual Electrical Savings} \\ & \text{*Conversion Factor for a 3-Phase Power Source} \end{aligned}$$

$$\begin{aligned} & (460/1000) \times 3.0 \times 1.73 = 2.39\text{kW} \\ & 2.39\text{kW} \times (24 \times 5 \frac{1}{2} \times 52) = 16,405\text{kWh} \\ & 16,405\text{kWh} \times \$.086 = \$ 1,410.83 \end{aligned}$$

LE's 6802 MULTILEC INDUSTRIAL OIL SAVES \$1,410.83 ANNUALLY IN ELECTRICAL CONSUMPTION

Based on the cost of six gallons of LE's 6802 MULTILEC Industrial Oil used for the flush and refilling of this compressor, combined with the electrical savings generated, there is a **payback period of 25 days**. The extended drain interval has been targeted at six months.

OTHER PRODUCTS USED

6406 MONOLEC[®] R&O Compressor/Turbine Oil in their Tensor Group Presses to reduce the operating temperatures.

LE's 3751 ALMAGARD[®] Vari-Purpose Lubricant for the press and the folder, applications requiring a grease that will not pound out.

We wish to thank Dave Williams, Production Manager, Dale Cooper, Maintenance, and local LE Representative Richard Hynes (pictured) for the information provided to prepare this report.

