

## 6803 MULTILEC® INDUSTRIAL OIL

### SOUTHERN MILLLS - ELLIS PLANT, Senoia, GA

Ingersoll-Rand Rotary Screw Air Compressor • SIC 2284 - Spinning & Weaving

#### **CUSTOMER PROFILE**

Southern Mills Ellis Plant spins and weaves fabric which is sent to a finishing plant and used as fire protective fabric. The plant has been an LE customer since April 1999.

#### **APPLICATION**

- ◆ Three Ingersoll-Rand SSR 250 hp Rotary Screw Air Compressors which supply air to the entire plant



#### **AREA OF INTEREST**

- ◆ Reducing energy consumption
- ◆ Reducing costs
- ◆ Potential for increasing machine protection

#### **LE SOLUTION - 6803 MULTILEC® Industrial Oil**

- ◆ Multi-functional
- ◆ Heavy-duty rust and oxidation inhibitors
- ◆ Anti-wear additives for prolonged gear and bearing life
- ◆ Excellent water separation ability

#### **CUSTOMER COST SAVINGS**

Test amperage readings were taken from one of the compressors before and after adding LE's 6803 MULTILEC® Industrial Oil. After the change to LE, the unit recorded a 10-amp drop in electricity consumption.

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

$$\begin{aligned} & \text{Volts} \times \text{Amps Saved} \times 1.73^* = \text{kW Savings} \\ & \text{kW Savings} \times \text{Hours of Operation per Year} = \text{kWh Savings} \\ & \text{kWh Savings} \times \text{Electrical Charge} = \text{Energy Savings per Year} \\ & \text{*Conversion Factor for a 3-Phase Power Source} \end{aligned}$$

$$\begin{aligned} & .575V \times 10 \times 1.73 = 9.94 \\ & 9.94 \times 8400 = 83,496 \\ & 83,496 \times 5.3^{**} = \$4,425.29 \end{aligned}$$

**\*\* 5.3 cents per kilowatt hour**

The operator also estimates he will save \$697 per 35 gallon of each compressor per year in direct oil costs. Total estimated savings for the three compressors is more than \$14,000 per year.

We would like to thank Barry Flippo, Plant Engineer, and LE Representative Blake Yates for the information used to prepare this report.



**Blake Yates**