

6803 MULTILEC® INDUSTRIAL OIL

SUNSHINE MILLS, INC., Tupelo, MS

Quincy 490, 100 hp Compressor • SIC 2047 Dog & Cat Food

LE's 6803 MULTILEC® INDUSTRIAL OIL SAVED \$16,014.96 ON ELECTRICAL POWER CONSUMPTION ANNUALLY

CUSTOMER TESTIMONIAL

CUSTOMER PROFILE

Sunshine Mills, Inc. is a pet food manufacturer that services the southern United States. They have been an LE customer since 1995.

APPLICATION

Sunshine Mills uses a 100 hp Quincy 490 Compressor to supply air to the entire plant. This compressor runs 5 days a week, 24 hours a day. The compressor room always has a very high humidity, high temperature and a lot of dust.

AREA OF INTEREST

While using a commercial grade oil, the compressor was getting extremely short oil life. Alvin Simpson, Maintenance Foreman and Jerry Simpson, Parts Manager were wanting to extend the oil life for this compressor.

Sunshine Mills was also experiencing high electrical bills and was very interested in energy savings. They are paying \$0.15 kWh, and have an arrangement with the local power company to provide emergency back-up power in the event of a power failure.

LE SOLUTION

The local LE Representative recommended LE's 6803 MULTILEC® Industrial Oil for the compressor. LE's 6803 is a truly multi-functional, heavy-duty R&O and anti-wear industrial oil suitable for air compressors, hydraulics, bearings, industrial turbines and R&O gear applications. It is compounded with premium paraffinic base stocks for greater lubricity, has outstanding rust and oxidation resistance and excellent water separation ability. LE's 6803 has an anti-wear additive for increased gear and bearing life and is formulated to combat acid hydrolysis in rotary screw compressors. It also contains MONOLEC®, LE's exclusive wear-reducing additive.

The LE Representative presented LE's ZAP Energy Saving Program, as a means to help Sunshine Mills save on electrical energy and save money.

CUSTOMER COST SAVINGS

LE's 6803 MULTILEC® Industrial Oil is now being used in the Quincy 490 compressor and it is doing a fantastic job. Oil consumption and waste oil disposal has been cut considerably.

**LUBRICATION
ENGINEERS, Inc.**

Leaders in Lubricants



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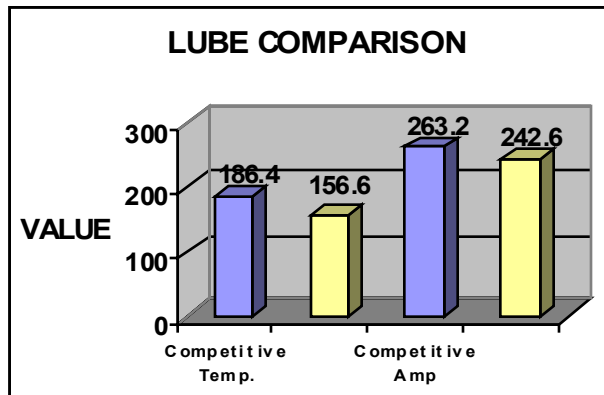
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You can see the savings that have been made possible with LE's ZAP Program:

FIVE DAY SAMPLE

Competitive Oil Temperature	LE's 6803 Temperature	Competitive Oil Amperage	LE's 6803 Amperage
165	155	263	240
187	157	262	242
193	158	264	244
193	157	263	243
194	156	264	244
186.4 AVERAGE	156.6 AVERAGE	263.2 AVERAGE	242.6 AVERAGE

TEMPERATURE WAS REDUCED BY 29.8°F...AMPERAGE WAS REDUCED BY 20.6 AMPS



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

$$\begin{aligned}
 &.Volts \times Amperage \text{ Reduction} \times 1.73^* = \text{kW Savings} \\
 &\text{kW Savings} \times \text{Hours of Operation Per Year} = \text{kWh Savings} \\
 &\text{kWh Savings} \times \text{Electrical Charge} = \text{Energy Savings Per Year} \\
 &^* \text{Conversion factor for a 3-Phase Power Source}
 \end{aligned}$$

$$\begin{aligned}
 &.480 \times 20.6 \times 1.73 = 17.11 \\
 &17.11 \times 6240 = 106,766.40 \\
 &106,766.40 \times .15 = \$16,014.96
 \end{aligned}$$

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OTHER PRODUCTS USED

Sunshine Mills, Inc also uses LE's 1250 ALMASOL® High Temperature Lubricant in their bearing applications and LE's 704 MONOLEC® Gear Lubricant in their gear applications.

We wish to thank Alvin Simpson, Maintenance Foreman, Jerry Simpson, Parts Manager and the local LE Representative for the information provided to prepare this report.