

6802 MULTILEC® INDUSTRIAL OIL

PETERSON AMERICAN CORP., Three Rivers, MI

Hydraulic Units & Ingersoll-Rand Air Compressor • SIC 3495 Wire Springs

After changing over to LE's 6802, there was a 9 amp drop in electricity used.

CUSTOMER PROFILE

Peterson American Corporation is a manufacturer of coil springs and snap rings. This established company has been an LE customer for three years. Their products are distributed through the United States.

APPLICATION

Five hydraulic units are used in the manufacture of the rings. These units operate 24 hours per day.

AREA OF INTEREST

While using a commercial grade hydraulic lubricant, Peterson American was experiencing high temperatures and leaking hydraulic oil. The result of this was frequent repairs on the units, which are crucial to production time, and extreme oil consumption because of the leaks.

LE SOLUTION

The local LE Representative recommended LE's 6802 MULTILEC® Industrial and ZAP, Lubrication Engineers

Energy Saving Program. LE's 6802 is a truly multi-functional, heavy-duty R&O and AW 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. LE's 6802 can lower temperatures and give extended oil drain intervals.

CUSTOMER COST SAVINGS

At the time Peterson American installed LE's 6802, the temperatures in the hydraulic units dropped 15-20 degrees . . . 132°F to 112°F (56°C to 44°C). They are now using LEAP (Lubrication Engineers' Analysis Program) to monitor the condition of the oil so they can safely extend the drain intervals.

Because LE's 6802 is so multi-functional, they are also using it in their Ingersoll-Rand 100 hp air compressor. Amperage readings were taken on the unit before converting to LE's 6802. **After changing over to LE's 6802, there was a 9 amp drop in electricity used.**

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 company.

.Volts x Amps Saved x 1.73* = kW Savings
kW Savings x Hours of Operation Per Year = kWh Savings
kWh Savings x Electrical Charge = Energy Savings Per Year
***Conversion Factor for a 3-Phase Power Source**

.480 x 9 x 1.73 = 7.47
7.47 x 6000 = 44820.0
44820.0 x \$0.06 = \$2,689.20

***LE's 6802 MULTILEC® Industrial Oil Saves \$2,689.20
On One Ingersoll-Rand Air Compressor***

OTHER PRODUCTS USED

- ◆ LE's 1275 ALMAPLEX® Industrial Lubricant is being used as a plant-wide grease.

We want to thank Mike Wadsworth, Maintenance Supervisor and LE Representative Barbara Graham for providing the information to prepare this report.



Barbara Graham