

6802 MULTILEC® INDUSTRIAL OIL
NORTHWESTERN OREGON TIRE STORE
Atlas Copco 20 hp Rotary Screw Air Compressor
SIC 5014 Tires & Tubes

CUSTOMER TESTIMONIAL

**LE'S 6802 SAVES THIS CUSTOMER \$245.80 ANNUALLY
IN ELECTRICAL ENERGY COSTS!**

CUSTOMER PROFILE

This tire store located in Northwestern Oregon has been in business for over 30 years, selling tires, batteries, shocks, wheels, brakes and doing wheel alignments.

APPLICATION

In their service operation this Northwestern Oregon Tire Store uses an Atlas Copco 20 hp rotary screw air compressor. This air compressor operates 11 hours a day, six days per week.

AREA OF INTEREST

The personnel at the Northwestern Oregon Tire Store were interested in better performance than they were receiving from their very expensive synthetic air compressor oil.

LE SOLUTION

The local LE Representative recommended Lubrication Engineers' ZAP Energy Saving Program in conjunction with LE's 6802 MULTILEC Industrial Oil to reduce power consumption and increase the life and performance of the air compressor.

CUSTOMER COST SAVINGS

Prior to the conversion to LE's 6802 MULTILEC Industrial Lubricant amperage and temperature readings were taken on the unit. Readings were again taken after the unit had been flushed and filled with LE's 6802 MULTILEC Industrial Lubricant. The following are the results of these readings:

**LUBRICATION
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LI70037
98-02-06

Amps	Discharge Temp	Com press or Tem p	Delivery Press ure
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Prior to Conversion

Leg #1	58	104°	85°	135 lbs.
Leg #2	60			
Leg #3	<u>58</u>			
Total	176 amps			

(176 ÷ 3 = 58.6 amp average)

Amps	Discharge Temp	Com press or Tem p	Delivery Press ure
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After Conversion to LE's 6802 MULTILEC Industrial Lubricant

Leg #1	52	93°	68°	148 lbs.
Leg #2	55			
Leg #3	<u>58</u>			
Total	165 amps			

(165 ÷ 3 = 55 amp average)

LE's 6802 MULTILEC Industrial Oil saved 3.6 amps of electricity. The following is the formula used by the local utility company to find the cost of a unit's electrical energy consumption.

.Volts x Amperes Saved x 1.73* = kW Savings
kW Savings x Hours of Operation Per Year = kWh Savings
kWh Savings x Electrical Charges = Energy Savings Per Year
***Conversion factor for a 3-phase power source.**

.230 x 3.6 x 1.73 = 1.432
1.432 x 3,432 = 4916.13
4916.13 x \$0.05 = \$245.80

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We would like to thank the personnel at the Northwestern Oregon Tire Store and the local LE Representative for the information provided to prepare this report.