

6801 MULTILEC® INDUSTRIAL OIL

L.S.I. LOGIC, Wichita, KS

**Sullair 12BS-50H ACAC Rotary Screw Air Compressor
SIC 3577 Computer Peripheral Equipment, nec**

CUSTOMER PROFILE

L.S.I. Logic has been in business since 1972.

They manufacture high technology computer peripherals.

APPLICATION

A Sullair 50 hp rotary screw air compressor supplies plant air for their manufacturing processes.

AREA OF INTEREST

L.S.I. Logic was interested in an air compressor oil that would allow extended drain intervals and reduced electrical consumption. They were changing air compressor oil every six months and were experiencing extreme wear on the unit. The compressor operates two shifts; 4 a.m. to 12 midnight, six days per week. The operating environment for the air compressor is a well-ventilated open room designated for air compressors.

LE SOLUTION

LEs 6801 was recommended to reduce energy consumption, increase wear protection and extend drain intervals. This reduced downtime due to mechanical failure and routine maintenance.

CUSTOMER COST SAVINGS

LEs 6801 MULTILEC Industrial Oil, in conjunction with LEs ZAP

\$407.28 Annual Savings on the Sullair Air Compressor!

Energy Saving Program, resulted in annual savings on the Sullair air compressor of \$407.28, as outlined in the chart on the back of this Feedback. Over a three year period, **savings on electrical energy and lubrication costs have amounted to \$1765.26.**

The conversion to LEs 6801 was completed 12-18-91. As of 01-16-96, the Sullair air compressor has over 15,307 hours on the oil, and oil analysis shows that it is still suitable for continued use. The previous drain interval with the specialty grade lubricant was six months (3,120 hours)!

6801 MULTILEC's versatility has allowed L.S.I. Logic to consolidate air compressor oil inventory to the same product for the Sullair air compressor and for their Gardner-Denver air compressor.

OTHER LE PRODUCTS USED:

- ◆ 6803 MULTILEC® Industrial Oil
- ◆ 1275 ALMAPLEX® Industrial Lubricant
- ◆ 1107 Automatic Transmission Fluid
- ◆ 8800 MONOLEC® ULTRA Engine Oil
- ◆ 9102 SYNTEMP® Synthetic Lubricant



ZAP CONVERSION DATA
L.S.I. LOGIC, WICHITA, KANSAS
 6801 MULTILEC Industrial Oil
 Sullair 12BS – 50H ACAC Air Compressor

Product Cost Information	
6801 MULTILEC \$14.80 per gallon \$88.80 per 6 gallons	Specialty Grade Lubricant \$17.42 per gallon \$104.52 per 6 gallons

Analysis of Product Readings					
Date	Amps	Volts	Ambient Temp. Degrees F (C)	Oil Temp. D Degrees F (C)	Product
12-18-91	54	460	76 (24)	165 (74)	6801
08-14-90	58	460	76 (24)	178 (74)	Specialty Grade

Cost Analysis Breakdown	
<p>The following formula is used to estimate the cost of operation of a unit's electrical consumption:</p> <p style="margin-left: 40px;">Volts x Amperes x 1.73* = kW KW x Hours of Operation Per Month = kWh kWh x Electrical Charge** = Electrical Cost Per Month Demand Charge*** x kW = Demand Charge Per Month *Conversion factor for a 3-phase source. **Based on a typical annual average of a moderate sized industrial operation. ***Based on a typical summer/winter demand charge average.</p>	
6801 MULTILEC	Specialty Grade Lubricant
<p>.460 x 54 x 1.73 = 42.9732 kW 42.9732 kW x 206.05 = 8854.63 kWh 8854.63 kWh x \$0.07 = \$619.82 \$6.91 x 42.9732 = \$296.94 \$619.82 + \$296.94 = \$916.78 Cost to operate air compressor with LE's 6801 MULTILEC Industrial Oil \$916.78 per month \$11,001.36 per year</p>	<p>.460 x 56 x 1.73 = 44.5648 kW 44.5648 kW x 206.05 = 9182.58 kWh 9182.58 kWh x \$0.07 = \$642.78 \$6.91 x 44.5648 = \$307.94 \$642.78 + \$307.94 = \$950.72 Cost to operate air compressor with Special Grade Lubricant \$950.72 per month \$11,408.64 per year</p>

LE's 6801 MULTILEC saves \$407.28 in annual electrical consumption.

We wish to thank Henry Harvey, Maintenance Specialist and LE Representative Cliff Youngers (pictured) for providing the information used to prepare this report.

