

8420 MONOLEC® GFS OIL

PMS CONSOLIDATED MATERIALS, Fort Worth, TX

Ingersoll-Rand Model 50H Air Compressor • SIC 3291 Plastics Materials & Resins

LE SAVES \$1,102.56 ANNUALLY ON ELECTRICAL CONSUMPTION

CUSTOMER TESTIMONIAL

CUSTOMER PROFILE

PMS Consolidated Materials Company is a polypropylene resin manufacturer. They have been an LE customer since 1989.

APPLICATION

An Ingersoll-Rand model 50H air compressor provides plant air.

AREA OF INTEREST

PMS wanted an opportunity to increase the air compressor's efficiency by lowering overall temperature of the oil and the amperage draw under full load.

LE SOLUTION

LE Representative Bill Guynes recommended LE's 8420 MONOLEC GFS Oil SAE 20. LE's 8420 contains a unique additive package which, when coupled with MONOLEC®, LE's exclusive wear-reducing additive, works synergistically to provide the best protection available. To document the desired affects of increased efficiency and reduced amperage; the Ingersoll-Rand air compressor was first brought to full load condition. Amperage and ambient temperature readings were taken. Next the system was drained while it was still warm and then filled with LE's 8420 and brought up to operating temperature. Amperage readings and temperatures were taken again during this time frame.

CUSTOMER COST SAVINGS

This is a comparison of results taken from the different readings:

LE'S 8420 MONOLEC® GFS OIL
\$14.10 per gallon
\$84.60 per 6/gallon container

Specialty Grade Synthetic Lube
\$38.08 per gallon
\$228.48 per 6/gallon container

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**LE'S 8420 MONOLEC® GFS OIL SAE 20 SAVES
\$143.88 PER CONTAINER!**

ANALYSIS OF PRODUCT READINGS

<u>Date</u>	<u>Amps</u>	<u>Volts</u>	<u>Ambient Temp.</u>	<u>Oil Temp</u>	<u>Product</u>
04/18/89	60.0	480	80°F. (27°C.)	160°F. (71°C.)	Specialty Grade Synthetic Lubricant
04/18/89	54.0	480	80°F. (27°C.)	150°F. (66°C.)	LE's 8420 MONOLEC GFS OIL

RESULTS

**LE's 8420 GFS OIL SAE 20
Draws 54 Amperes**

**Specialty Grade Synthetic Lubricant
Draws 60 Amperes**

LE's 8420 MONOLEC® GFS OIL SAVES 6 AMPERES

The following formula is used to find the cost of operation of a unit's electrical consumption. This is the same formula used by TU Electric, the local utility company.

.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 + Electrical Charge = Total Cost of Operation Per Month
***Conversion Factor for a 3-Phase Power Source**

COST ANALYSIS BREAKDOWN

LE's 8420 MONOLEC GFS OIL
 .480 x 54 x 1.73 = 44.84 kW
 44.84 x 288 hpm = 12,913.92 kWh
 12,913.92 x \$0.05 = \$645.70
 \$4.05 x 44.84 = \$181.60
 \$645.70 + \$181.60 = \$827.30
 Cost to operate on LE's 8420
 Per Month \$827.30
 Per Year \$9,927.60

Specialty Grade Synthetic Lubricant
 .480 x 60 x 1.73 = 49.82 kW
 49.82 x 288 hpm = 14,348.16 kWh
 14,348.16 x \$0.05 = \$717.41
 \$4.05 x 49.82 = \$201.77
 \$717.41 + \$201.77 = \$919.18
 Cost to operate on Synthetic
 Per Month \$919.18
 Per Year \$11,030.16

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ON ELECTRICAL CONSUMPTION**



Bill Guynes

We wish to thank Gary Simpson, Maintenance Supervisor and LE Representative Bill Guynes for the information provided to prepare this report.