

# 4046 QUINPLEX<sup>®</sup> SYNTHETIC FOOD GRADE OIL

SARA LEE BAKERY, Oklahoma City, Oklahoma

Quincy Air Compressors • SIC 2051 Bread & Bakery Products

CUSTOMER TESTIMONIAL

- **ELIMINATED VARNISHING PROBLEM**
- **EXTENDED OIL DRAIN INTERVALS**
- **REDUCED COSTS FOR OIL, FILTERS AND SEPARATORS**

## CUSTOMER PROFILE

Sara Lee Bakery is a commercial bakery. They produce a varied line of premium products.

## APPLICATION

Four Quincy air cooled compressors, three 50 hp and one 100 hp, provide air for the plant equipment. The units are outdoors and experience the extremes of Oklahoma temperatures (-10°F to 110°F, -23°C to 43°C) and are exposed to airborne contaminants.



temperature performance characteristics.

## AREA OF INTEREST

Sara Lee was experiencing heavy varnishing in the compressors. Engineer Manager Gene Merz was using an expensive varnish remover to keep the compressors clean.

## LE SOLUTION

LE Lubrication Consultant Richard Weber recommended 4046 QUINPLEX<sup>®</sup> Synthetic Food Grade Oil. LE's 4046 is NSF and USDA H1 for food processing equipment. It contains LE's proprietary additive, QUINPLEX and an anti-microbial agent. 4046 has superior low

## CUSTOMER COST SAVINGS

In the fall of 2004 the decision was made to convert the compressors to LE's 4046. With proper flushing and monitoring using LEAP (Lubrication Engineers Analysis Program) it was determined that 4046 was not varnishing at 2,000 hour change intervals as compared to the previous commercial grade oil. Later, the decision was made to extend oil, filter and separator changes out to 3,000 hours vs. the previous 2,000 hours.

Since the time of conversion to LE 4046, all four compressors have worked properly in all temperatures with no varnishing problems.

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L170630  
07-27-07

By extending the oil drain intervals to 3,000 hours Sara Lee has reduced their costs for oil, filters and separators:

3 - 50 hp units = \$ 2,029

1 - 100 hp unit = \$ 1,198

**4046 saves \$3,227 annually.**

This savings helped in a plant wide cost reduction to keep the Oklahoma City plant in the top 2 or 3 Sara Lee plants for efficiency.

### **OTHER PRODUCTS USED**

⇒ **9102 SYNTEMP® Synthetic Lubricant** is used on chains and open gears.

⇒ **1275 ALMAPLEX® Industrial Lubricant** is used as a general purpose grease.

⇒ **9901 ALMASOL® Syntemp Lubricant** is used in the proofers due to the high heat.

⇒ **4025 QUINPLEX® Food Machinery Lubricant** is used everywhere that an H1 grease is needed.

⇒ **608 ALMASOL® Vari-Purpose Gear Lubricant** is used in most gear reducers.

⇒ **607 ALMASOL® Vari-Purpose Gear Lubricant** is used on the proofer chains.

We would like to thank Engineer Manager Gene Merz and LE Lubrication Consultant Richard Weber for the information provided to prepare this report.



**Richard Weber**