

704 MONOLEC[®] GEAR LUBRICANT

NEVADA BAKING COMPANY, Las Vegas, NV

Peerless 2000 lb. Capacity Mizer • SIC 2051 Bread, Cake & Related Products

**LE has saved Nevada Baking Company
over \$10,000 in overall operating costs!**

CUSTOMER PROFILE

Nevada Baking Company has been an LE customer since January of 1992. At this location they bake bread and rolls.

APPLICATION

In the baking of the bread, all dough is mixed by a Peerless mixer. The unit runs 20 hours a day, five days a week, 52 weeks a year.

AREA OF INTEREST

While using a specialty grade 90 wt. gear oil, the gearbox on the mixer was experiencing sludging of the oil and the oil had to be changed every four months. Bearings and gears were failing twice a year, requiring replacement and downtime.

LE SOLUTION

The local LE Representative recommended LE's 704 MONOLEC Gear Lubricant to eliminate the sludging and extend the drain intervals on the gearbox. Not only can LE's 704 extend drain intervals and reduce wear, but lower friction means less electrical energy used.

CUSTOMER COST SAVINGS

Since installing LE's 704 in January of 1992, there have been no gearbox failures, and electrical energy costs have been reduced by \$982.18 per year. Switching to LE's 704 MONOLEC Gear Lubricant resulted in an 8-amp reduction in this Peerless mixer gearbox.

**LUBRICATION
ENGINEERS[®], Inc.**

Leaders in Lubricants



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.

$$\begin{aligned} & \text{Volts} \times \text{Amperes Saved} \times 1.73^* = \text{kW Savings} \\ & \text{kW Savings} \times \text{Hours of Operation Per Year} = \text{kWh Savings} \\ & \text{kWh Savings} \times \text{Electrical Rate} = \text{Total Annual Savings} \\ & * \text{Conversion Factor for a 3-Phase Power Source} \end{aligned}$$

$$\begin{aligned} & .220 \times 8 \times 1.73 = 3.045 \\ & 3.045 \times 5200 = 15,834 \\ & 15,834 \times \$0.06203 = \$982.18 \end{aligned}$$

Not only did LE's 704 MONOLEC Gear Lubricant save electrical energy costs; it saved \$4,000 in replacement costs on the bearings and gears, plus downtime costs of \$3,840. Since installing LE's 704 in 1992, LE has saved Nevada Baking Company over \$10,000 in overall operating costs for this Peerless mixer.

We wish to thank Jeff Henry, Plant Engineer (Jeff has well over 20 years in the baking industry) and the local LE Representative for the information provided to prepare this report.