

Customer Testimonial



Monolec® Gear Lubricant (704)

Nevada Baking Company – Las Vegas, Nev.

Peerless 2000 lb. Capacity Mixer

- *Eliminated gearbox failures*
- *Saves \$982.18 per year in electrical 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.

Challenge

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 lubrication consultant recommended Monolec® Gear Lubricant (704) to eliminate the sludging and extend the drain intervals on the gearbox. Not only can Monolec 704 extend drain intervals and reduce wear, but lower friction means less electrical energy used.

Results

Since installing Monolec 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 Monolec 704 resulted in an 8-amp reduction in this Peerless mixer gearbox.

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.

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

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

LE's Monolec® Gear Lubricant (704) saves \$982.18 per year in electrical energy costs.

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

Thank you to Jeff Henry, plant engineer, and to the local LE lubrication consultant, for providing the information used in this report.



Monolec® is a registered trademark of Lubrication Engineers, Inc.

Based on actual user experience. Individual results may vary. Not intended to supersede manufacturer specifications.

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