



## Pyroshield® Syn Hvy Open Gear Lubricant (9000)

*Holcim, Inc. – Artesia, Mississippi*

*Allis Chalmers Ball Mills*

- Reduced lubricant consumption by 50 percent
- Maintained cooler gear temperatures
- Eliminated hazardous waste disposal costs
- Lowered energy consumption by 3½ amps

### *Customer Profile*

Holcim, Inc. is a large worldwide cement manufacturer with one of its facilities located in Artesia, Miss.

### *Application*

Holcim has three Allis Chalmers 2,500-hp ball mills used to pulverize raw materials and finished product for the manufacturing of various types of cement.

### *Challenge*

Holcim had previously been using an asphaltic product to lubricate the large open gear sets on the ball mills. The asphaltic product had been used there for years, causing a build-up of hardened lubricant in the roots of the gears. John Harper, maintenance superintendent, was concerned with the constant health and safety problems associated with using asphaltic products, as well as the messy housekeeping required. Disposal costs were also high because asphaltics must be disposed of at an approved hazardous waste disposal site.

### *LE Solution*

The local LE lubrication consultant recommended LE's Pyroshield Syn Open Gear Lubricant (9000), a heavy-duty synthetic oil recommended for ball mill and other extreme applications. Pyroshield contains extreme pressure additives and is nonasphaltic. It is ideal for automatic spray systems.



### *Results*

Since the conversion of two of Holcim's three ball mills to Pyroshield 9000, lubricant consumption has been reduced by approximately 50 percent. Hazardous waste disposal costs have been eliminated, and cooler gear temperatures are being maintained, resulting in an approximate 3½-amp reduction in energy usage. The gear teeth are clean and protected by the Pyroshield, and there is no buildup in the roots of the gears.

Two hours after Pyroshield 9000 was installed Audi Pettit, maintenance supervisor, said, "The mill's even quieter than before!" Gary Hurt in maintenance said, "The amperage spikes aren't as great."

### *Other LE Products Used*

- Syntemp® Synthetic Lubricant (9102) is used on all chains.



*Thank you to John Harper, maintenance superintendent; Audi Pettit, maintenance supervisor; Gary Hurt and Tommy Milsaps, maintenance personnel; and the local LE lubrication consultant, for providing the information used in this report.*

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