

5180 PYROSHIELD®

TENN-LUTTRELL LIME CO., Luttrell, TN

Kennedy Van Saun (KVS) 9' X 13' Ball Mill • SIC 3274 Lime

CUSTOMER PROFILE

Tenn-Luttrell Lime Company has been in business for 18 years, manufacturing quicklime, hydrated lime and crushed and pulverized limestone products. They have been an LE customer for 11 years.

APPLICATION

A KVS ball mill is used in the manufacture of lime products at Tenn-Luttrell. The KVS ball mill is a 450 hp, single pinion driven mill. The mill operates at 21 rpm, grinding coal to fire the KVS rotary kiln. Lubrication is sprayed on the gears with a pneumatic pump system. The mill operates 330 days per year.

AREA OF CONCERN

The environment of the lime quarry is very dusty and hot. The gerset on the KVS ball mill was showing premature gear face wear and there was vibration caused by the buildup of the asphaltic product in the gear teeth. The gear teeth were badly worn, but they needed to keep the mill in production to meet sales demands.

30°F Drop in Temperature!

LE SOLUTION

LE's 609 ALMASOL® Vari-Purpose Gear Lubricant was used during the conversion process to clean the mill while it was "on-line". LE's 5180 PYROSHIELD was then applied after the asphaltic product had been cleaned from the gerset.

CUSTOMER COST SAVINGS

While using the asphaltic compound, Tenn-Luttrell was using 25 drums of the product per year. With LE's 5180 PYROSHIELD their lubricant consumption has been cut to 12 drums. A 30°F. temperature drop was measured on the pinion face after converting to LE's 5180. The maintenance personnel at Tenn-Luttrell estimate that LE's 5180 has doubled the expected life of the gerset on this mill. The average cost of parts is \$5,000 per year, plus \$2500 labor. Lost production averages \$1,000 per hour.

We would like to thank the Owner, Joe Felango, Mechanic and Operator Willy Thiels, and LE Representative Dave O'Connor (pictured) for the information provided to prepare this report.



Based on actual user experience. Individual results may vary. Product used not intended to supersede manufacturer's specifications.

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