

Blue Star® OGY 8800/10000 Cement Mill – Kiln Girth Gear & Drive Pinions

Application Information

Application:	Lubrication of Kiln Girth Gear & Drive Pinions
Operations:	Cement Kiln (A-C 15 X 17 X 520 Kiln, Model KB 12)
Blue Star Product:	Blue Star® OGY 8800/10000
Competitor:	ExxonMobil
Competitive Product:	Mobiltac MM & QQ

Customer Scenario:

A cement plant in the Midwest utilized a residual and specialty open gear compound (Mobil Mobiltac MM & QQ) to lubricate Type 1 drive gear and pinions. Because of seasonal swings in ambient temperatures, the customer was required to use a lighter grade in the winter and a heavier grade in warmer spring/summer months. Each time the lubricant was converted, a 12 hour shutdown was required. The open gear compound produced a thick tenacious coating that separated the gear pressure flanks during mesh.

Challenge to Blue Star:

The customer asked Blue Star to develop a high viscosity open gear lubricant that could operate year-round; thus eliminating seasonal change-outs.

Solution:

Blue Star engineered and produced Blue Star® OGY 8800/10000 high viscosity open gear lubricant. After a thorough clean out of the sump and gearing, OGY 8800/10000 was put into play. At the time of this publication, the product has been in use for over 4 years.

Results:

Blue Star® OGY 8800/10000 has operated continuously in the Kiln sump to lubricate the open gear and pinions. Removing the need for a seasonal shut downs also eliminated clean-outs, disposal of used lubricant, and purchase of new seasonal specialty open gear compound.

	Previous Product	Blue Star Product
Lubricant	Mobil Mobiltac MM & QQ	OGY 8800/10000
Capacity	80 gallons	80 gallons
Change Frequency	2 x year	By analysis
Scheduled Downtime	2 x 12 hours/year	N/A
Lost Production	24 hours/year	N/A
Value of Lost Production	(\$163,200)	N/A



North side of kiln girth & pinion gear set showing lubricant coating after setting idle