



Proof of Performance

Gear Shield in the Cement Industry Mill & Kiln Gears



Gear Shield in the Cement Industry: Mill & Kiln Gears

Background Information

Industry:	Cement	Application:	Open Gear Lubrication
Equipment:	Mills & Kilns	Lubricant:	Petron Gear Shield NC

Before Gear Shield NC®

Customer used a sprayable grease-type product to lubricate kiln and ball mill open gears. The product used did not meet OEM minimum base-oil viscosity requirements for intermittent spray systems of open gearing.

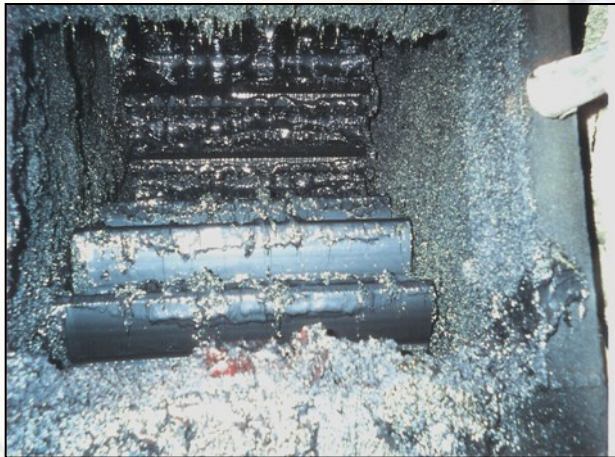
- Insufficient lubricant film strength contributed to premature gear wear.
- Lubricant build-up increased exposure of gears to air-borne contaminants.
- Lack of consistent drainage caused housekeeping issues.

After Gear Shield NC®:

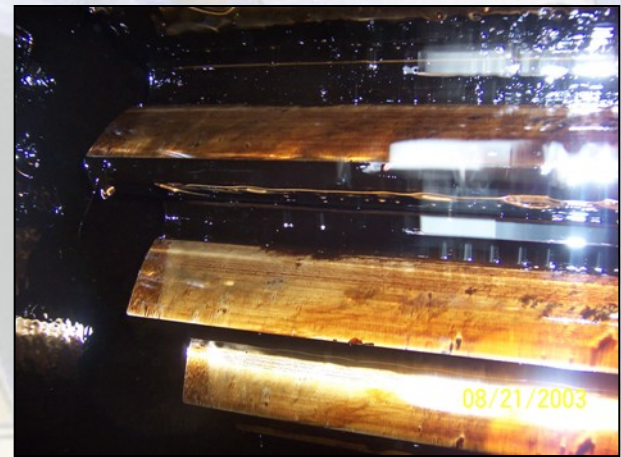
- Film strength restored - Gear Shield exceeds all OEM base-oil viscosity requirements.
- Lubricant build-up eliminated through Gear Shield's superior drainage capability.
- Elimination of housekeeping issues

Film Strength Restored

Before Gear Shield



After Gear Shield

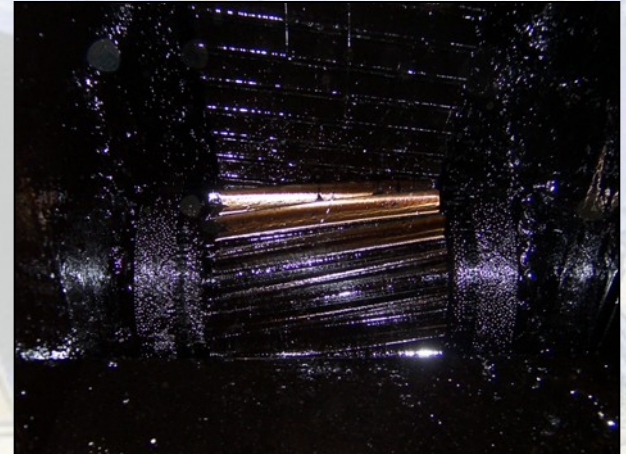


Build Up Eliminated

Before Gear Shield



After Gear Shield



Drainage Reestablished

Mill Drainage – Pre Gear Shield



Kiln Drainage – Post Gear Shield





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Summary

Gear Shield NC produced these measurable benefits:

- Extended Gear Life
- Reduced Lubricant Consumption
- Reduced labor costs