

LUBRICATION PERFORMANCE DUAL DRIVE KILN

OPERATING CONDITIONS OF THE EQUIPMENT:

APPLICATION: Dual Drive Kiln
 TEMPERATURE: - 14°C(7 °F) to +25 °C(77 °F)
 ENVIRONMENT: Harsh

PETRON RECOMMENDATION: GEAR SHIELD SYNTHETIC

- High-performance synthetic fluid
- Base oil Viscosity @40°C(104 °F) :40,000+ cSt
- Pumps freely down to -18°C(0°F)

BEFORE:
Operating conditions:

A cement manufacturer was utilizing a competitor open gear lubricant (OGL) for their dual drive kiln. Over several years, the site experienced poor pinion life, high OGL costs, and excessive costs with the auto lubricant system. This was due to the poor pumpability of the OGL, which required the consistent use of a barrel heater.

- Poor pinion life
- Lube cycle every 5 minutes
- High consumption of OGL
- Large waste disposal
- Excessive lubricant system cost

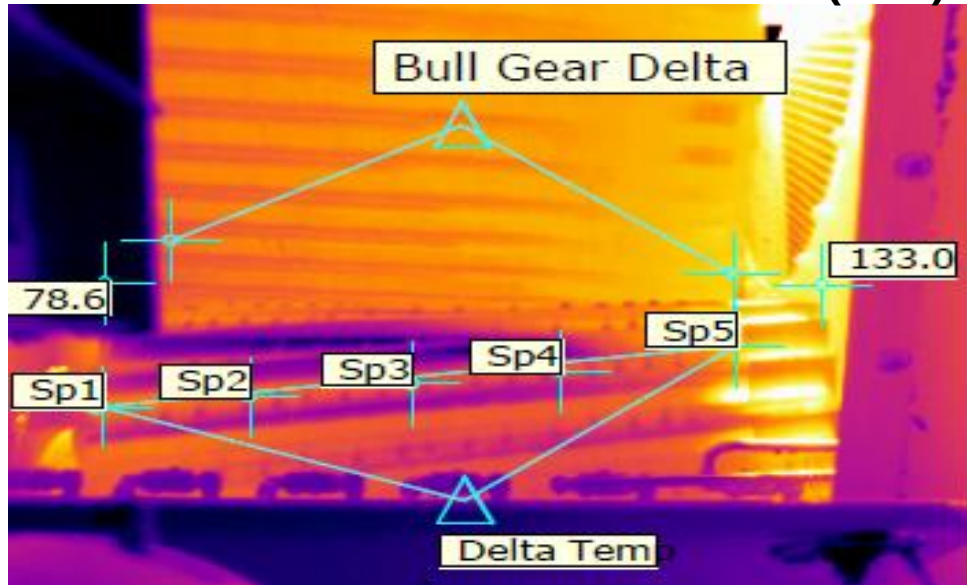
PETRON SOLUTION: GEAR SHIELD SYNTHETIC (GSS)

Petron's GSS chemistry gives the open gear lubricant a unique ability to provide maximum gear protection while reducing the need for barrel heaters. Its ability to wash away built-up contaminants in the roots has helped reduce gear wear. With support from Petron's Technical Service Team, the following steps were implemented :

- Increase lubricant off cycle to 15 minutes
- Set parameters when the barrel heater is to be operated
- Utilized thermal camera inspections to confirm proper gear alignment

	Competitor	Petron
Lube spend:	\$72,286	\$21,752
Waste disposal:	\$15,932	\$6,372
Intangible benefit:	\$5,000	\$10,000
Total Savings:		\$55,094

COMPETITOR OGL

PETRON GEAR SHIELD SYNTHETIC (GSS)


ANNUAL COST SAVINGS USING PETRON: USD ~55,000