



Proof of Performance

Gear Shield NC[®] In The Cement Industry





Proof of Performance

Background Information

Industry: Cement

Equipment: Kiln/Ball Mills

Application: Open Gear Lubrication

Lubricant: Petron Gear Shield NC[®]

Before Gear Shield NC[®]:

- 1) Customer used a sprayable grease open gear lubricant.
- 2) Lubricant did not meet OEM recommended viscosity for open gear lubricants.
- 3) Lubricant would not consistently drain from gear guard.
- 4) Lubricant rupture evident on face of gear teeth.
- 5) Consumption of previous open gear lubricant was approximately 14,300 pounds per year.

After Gear Shield NC[®]:

- 1) Gear Shield NC[®] exceeds OEM viscosity requirement for open gear lubricants.
- 2) Gear Shield NC[®] consistently drains from gear guard.
- 3) Current consumption of Gear Shield NC[®] is approximately 8,290 pounds per year.

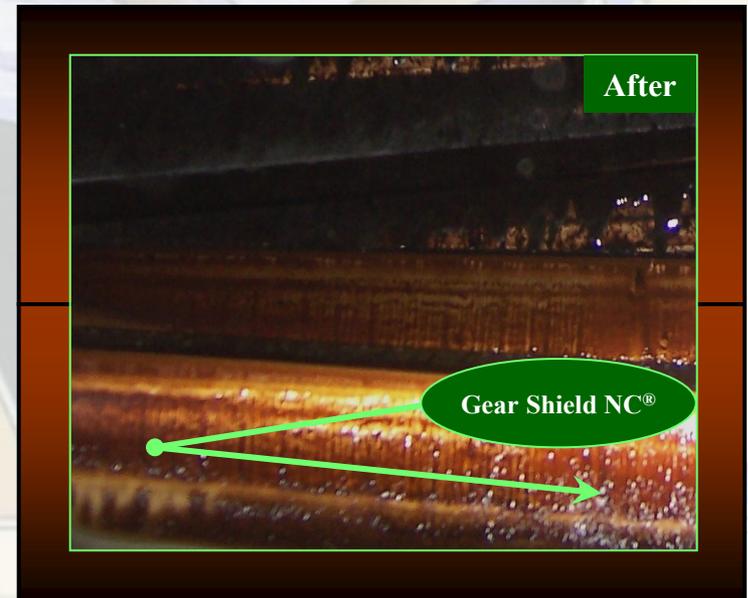
Benefits:

- 1) High viscosity film strength restored on pinion and girth gear.
- 2) Lubricant rupture eliminated.
- 3) Consistent drainage eliminated lubricant build up inside of gear guard.
- 4) Lubricant consumption reduced over 6,000 lbs. Hard cost savings realized.

Film Strength Restored



Lubricant Rupture Evident



High Viscosity Film



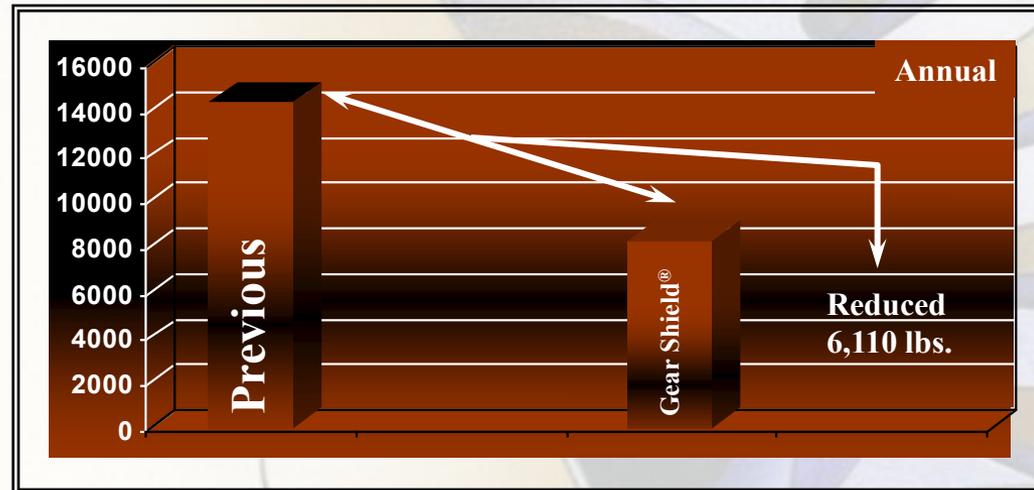
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Savings Analysis – Lubricant Consumption

Product	Consumption
Gear Shield NC[®]	8,290 pounds
Competitor	14,290 pounds

Consumption Measured Over Twelve Month Period

Comparison Of Lubricant Consumption (pounds)



Benefits

- **Reduced Cost For Lubricant**
- **Reduced Cost For Waste Disposal**
- **Improved Housekeeping**

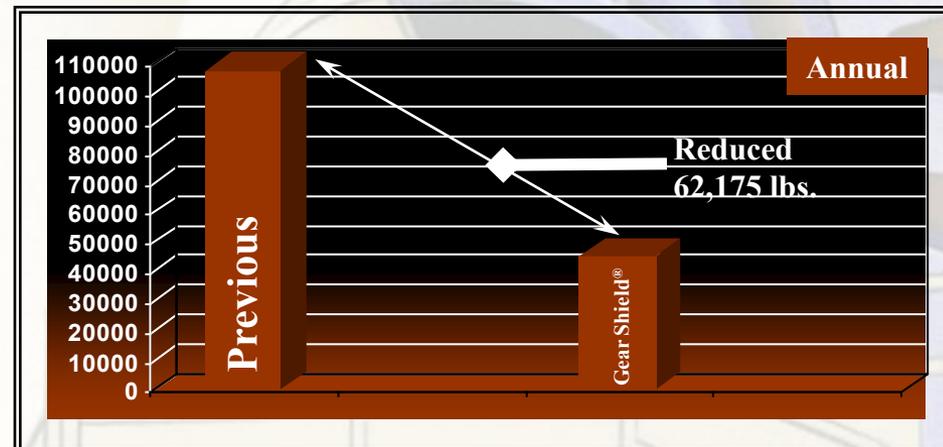
Weight Comparison – Lubricant Transferred (pounds) (Original to Gear Shield NC[®])

Previous

Gear Shield NC[®]

108,000 pounds

45,825 pounds



Benefits

- Reduced Compressed Air Demand
- Reduced Stress On Pump
- Reduced Stress On Lube Lines