

CEMENT (USA)

OPEN GEAR LUBRICATION

Castrol Molub-Alloy® OG 8031/3000-00*

COST SAVINGS: \$119,241

THE SITUATION

A major cement maker was experiencing regular pinion failures on their H.B. Fuller Raw Grinding Mill #2 open gear drive.

Castrol was asked to review the situation and determine a possible remedy.

BEFORE

- Competitor's solvent-containing open gear lubricant with no technical support
- Three (3) pinions replaced within a 6 year period.
- Replacement cost per pinion (parts only) is \$39,747

AFTER

- Castrol Molub-Alloy OG 8031/3000 solvent-free open gear compound
- Castrol support for conversion and regular monitoring thereafter
- No pinions replaced in the 12 years since conversion.

THE SOLUTION

- Castrol identified that the new technology of Molub-Alloy OG 8031/3000 would provide much better protection for the raw mill open gears.
- With the support of Castrol engineers, the customer converted to the new fluid and saw the pinion failures eliminated.



Molub-Alloy OG 8031/3000 eliminates raw mill gear failures.

RECOMMENDATIONS

The customer was using an old technology, solvent-containing open gear compound. These lubricants are very tacky but do not provide optimum lubrication of the gears. Cement dust was building up in the compound and leading to heavy abrasive wear.

Castrol engineers optimized the application rate of Molub-Alloy OG 8031/3000 to provide excellent lubrication while flushing the cement dust away from the gears.

CONCLUSION

The correct lubricant along with the proper support from the supplier provided the complete elimination of costly pinion failures.

The result was \$119,241 in parts savings alone.



OTHER POTENTIAL APPLICATIONS

Castrol Molub-Alloy OG 8031 series are advanced lubricants for open gear applications. The thixotropic nature allows for easy application without the use of solvents but provides excellent adherence to the gears. A special blend of lubricating solids provides another layer of protection.