

METALS (USA)

HIGH TEMPERATURE GREASE

LubeCon® / Castrol Molub-Alloy® 860/220-1 ES

ANNUAL SAVINGS: \$24,000



THE SITUATION

A leading steel producer was experiencing yearly failure of the upper thrust bearing and two year failure of the lower thrust bearing on the furnace roof pivot bushing set.

Castrol was challenged to reduce bushing wear and subsequent failure.

BEFORE

- A leading steel producer was utilizing manual grease to apply lubricant on a weekly basis to the upper and lower furnace roof pivot thrust bushings.
- The upper thrust bushing was wearing every year. The lower thrust bearing was needing replacement every 24 months.

AFTER

- Castrol installed a LubeCon system to apply grease consistently during production as the roof activates.
- Pivot bushings have not been changed since installation of the system was completed.

THE SOLUTION

- The introduction of a Castrol LubeCon system coupled with Castrol Molub-Alloy 860/220-1 ES has provided consistent grease application during times of critical heat and pressure.
- Molub-Alloy 860/220-1 ES has provided high temperature lubrication and performance in other related applications when applied consistently. Use in this application was based on this past performance.
- Consistent 860/220-1 ES resulted in annual upper/lower bushing savings of \$12,750.
- Costs of \$15,000 associated with removal, installation and assembly of the new bushing(s) are avoided.

- Right equipment and product for the right application
- Reliability of the LubeCon Automatic Lubrication System along with the Castrol Molub-Alloy 860/220-1 ES with its lubricating solids package provides real-time protection for the bushings.

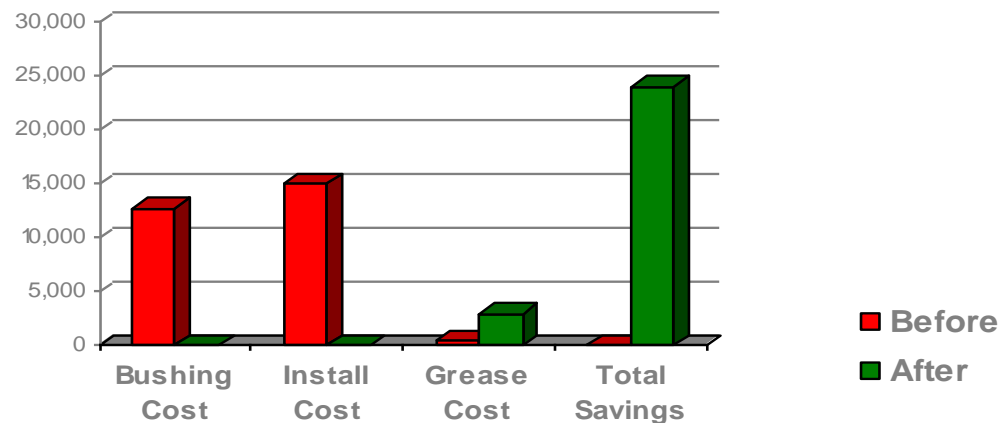
RECOMMENDATIONS

Castrol Molub-Alloy 860/220-1 ES applied on a consistent basis with the Castrol LubeCon system has been effective in curtailing upper and lower bushing wear. The system is activated twice per heat during roof pivot cycles.

CONCLUSION

- Application of proper amounts of Castrol Molub-Alloy 860/220-1 ES at the correct times has resulted in \$12,750 annual component savings
- System improvements and component conservation has avoided \$15,000 annual installation costs.

Annual Furnace Roof Pivot Bushing Savings Including Installation



OTHER POTENTIAL APPLICATIONS

Castrol Molub-Alloy 860/220-1 ES is suitable for most elevated temperature, extreme environment applications as encountered in steel making applications.