## METALS (USA) SEAMLESS TUBE MILL Castrol Molub-Alloy® 860/220-1 ES ANNUAL SAVINGS: \$168,000

# S Costrol :

## THE SITUATION

A leading producer of steel seamless tube was experiencing Plug Mill stripper roll bearing failures at a high rate causing unnecessary repair, downtime and expense.

The bearings are exposed to high temperatures and a large amount of water wash. The existing conventional grease was not able to resist these conditions, leading to high maintenance repair costs.

Castrol was challenged to reduce bearing wear and failure.

### **BEFORE**

- Commodity type grease with poor performance for conditions
- High levels of water mixing with the grease
- · Grease easily washed out
- Bearing failure rate of 1-2 bearings per month

### **AFTER**

- High performance grease designed for the conditions
- Very low amounts of water are able to mix with the grease
- Grease highly resistant to wash out
- · No bearing failures

### THE SOLUTION

- The introduction of Molub-Alloy 860/220-1 ES has provided consistent lubrication in the presence of water while the previous grease was highly susceptible to water degradation.
- Molub-Alloy 860/220-1 ES has provided high temperature lubrication and performance in other related applications. Use in this application was based on its past performance.
- The use of Molub-Alloy 860/220-1 ES resulted in the elimination of bearing failures.
- Costs for removal, installation, and assembly of the replacement bearings plus associated downtime is avoided.

- Right equipment and product for the right application
- Molub-Alloy 860/220-1 ES with its lubricating solids package and excellent water resistance provides real time protection for the bearings



### RECOMMENDATIONS

Molub-Alloy 860/220-1 ES has been effective in curtailing Stripper Roll bearing failures. The effects of water on bearing life cycles can be negated by the use of a high performance grease developed for the difficult conditions.

The Molub-Alloy 860 series of greases are amongst the most effective water resistant greases in the Castrol line.

### **CONCLUSION**

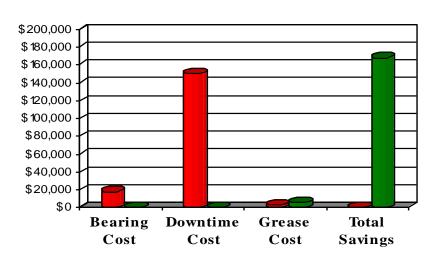
Application of proper amounts of Molub-Alloy 860/220-1 ES at the correct times has resulted in \$18,000 annual component savings.

System improvements and component conservation has avoided \$150,000 annual downtime costs.

### OTHER POTENTIAL APPLICATIONS

Castrol Molub-Alloy 860 is suitable for most elevated temperature, extreme environment applications encountered in steelmaking applications.

## Annual Stripper Roll Bearing Savings





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