

# METALS (USA)

## CONTINUOUS CASTERS

### Castrol Molub-Alloy® 6040/460-1.5 Grease

## ANNUAL SAVINGS: \$29,000



### THE SITUATION

The customer was using a conventional lithium-based grease with moderate success. Due to the presence of heavy metals in the lubricant, the customer wanted to make a change to avoid potential environmental liability.

### BEFORE

- Conventional grease containing heavy metals causing concern for change
- High grease usage due to aggressive water washout

### AFTER

- Environmental concerns eliminated
- 50% reduction in grease consumption
- Reduced bearing replacements

### THE SOLUTION

- A detailed solution was proposed to the customer.
- Castrol Molub-Alloy 6040 was recommended utilizing calcium sulfonate thickener technology.
- Proper lubrication interval adjustments were made to ensure optimum bearing lubrication.

- Full understanding of customer's situation and objectives
- Utilization of engineering services
- High-performance grease technology developed to work with aggressive process waters

## RECOMMENDATIONS

To address the various environmental concerns in the steel industry, Castrol has formulated several greases that don't contain heavy metals. The enhanced performance of these greases provides the customer with the ability to greatly reduce their consumption. This can greatly affect their waste disposal costs as well as the effects to their cooling water system.

## CONCLUSION

- Castrol was able to address the environmental concerns of the customer. A 50% reduction in grease consumption was achieved along with extended bearing life.
- Annual cost savings realized were \$29,000 for the bearings alone, with additional savings generated by the reduction of labor and disposal costs.



## OTHER POTENTIAL APPLICATIONS

Castrol Molub-Alloy 6040 performance-based grease is formulated to handle high temperatures, heavy & shock loads, water contamination, and other harsh conditions found throughout the steel industry.