

METALS (Americas)

Continuous Caster Lubrication

Castrol Molub-Alloy® 860/460-1 ES Grease

ANNUAL SAVINGS: \$52,000



THE SITUATION

- The customer was looking to increase their straightener segment bearing life between rebuilds in their thin slab continuous caster.
- Average straightener segment life between rebuilds was 817,477 tons of steel produced.

BEFORE

- Conventional grease was allowing cooling water intrusion.
- The centralized lubrication system was not adequately lubricating all caster segment roll bearings.
- The caster cooling water system was not providing adequate cooling.

AFTER

- Average caster bender segment life was increased from 817,477 tons to 1,513,726 tons of steel produced.

THE SOLUTION

- A Castrol solution was provided to address the challenges in the caster.
- Molub-Alloy 860/460-1 ES was implemented.
- Recommended upgrades to the centralized lubrication system were completed.
- Optimized lube cycles were made.
- The customer modified the caster cooling system.

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

RECOMMENDATIONS

- Successful solutions typically are derived from more than just product recommendations. Understanding the applications, ability to design lubrication systems and utilizing optimal lubrication intervals with high-performance grease can contribute to a winning solution

CONCLUSION

- Due to a combination of the use of Molub-Alloy 860/460-1 ES grease, upgrading the centralized grease system and modification of the cooling water system, the customer able to obtain significant savings.
- Straightener segment life was increased from 817,477 tons to 1,513,726 tons of steel produced.
- **Annual maintenance cost savings of \$52,000 were achieved.**



OTHER POTENTIAL APPLICATIONS

Castrol Molub-Alloy 860 ES high performance grease is formulated to handle high temperatures, heavy and shock loads, water contamination and other harsh conditions found throughout the steel industry.