METALS (USA) MELT SHOP – LADLE TURRET Castrol Molub-Alloy® 777-1 ES Grease ANNUAL SAVINGS: \$273,264

Castrol Molub-Alloy® 777-1 ES ANNUAL SAVINGS: \$273,264



A Castrol grease used for ladle turret bearing lubrication was changed to a competitive product due to a corporate contract change.

After the change to the competitive product one bearing failed and was replaced. The second bearing indicated severe damage and required nearly constant lubrication to keep it running until shutdown. Bearing replacement caused 36 to 48 hours downtime at \$10,000 lost production per hour and \$128,000 parts replacement cost.

BEFORE

- Parts replacement cost for two bearings – \$128,000
- Lubricant cost for two years \$18,000
- Total labor cost for bearing replacement – \$6,400
- Lost production \$420,000

Total two-year cost of bearing maintenance: \$572,400

AFTER

- Parts replacement cost None
- Lubricant cost for two years \$25,872
- · Labor cost None
- · Lost production None

Total two-year cost of bearing maintenance: \$25,872

THE SOLUTION

- Castrol Molub-Alloy 777-1 ES grease was successfully used for ladle turret bearing lubrication for over ten years without bearing failure.
- After experiencing multiple problems with the competitive grease as described above, bearing lubrication was changed back to Castrol Molub-Alloy 777-1 ES grease.
- Castrol Molub-Alloy 777-1 ES grease was designed for very heavy-duty applications such as ladle turret.
- It is made using a blend of high viscosity oils and contains a proprietary blend of lubricant solids of a grade and size distribution that is best suited to the rugged steel mill service for which this product was intended.



 Castrol Molub-Alloy 777-1 ES is the right product for the steel mill melt shop ladle turret bearing application.



RECOMMENDATIONS

Castrol Molub-Alloy 777-1 ES has proven to be the right product not only for the ladle turret bearing application, but for the multiple very heavy-duty service applications in the adverse melt shop working environment.

These applications may include but are not limited to electric arc furnace swing-roof bearings, ladle transfer cars, baghouse fan bearings and many other melt shop applications.

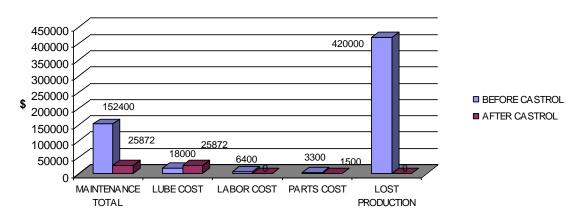
CONCLUSION

Since lubrication was changed back to Castrol Molub-Alloy 777-1 ES grease, the ladle turret bearings have not exhibited any problems for two years. There have been no bearing failures, no related parts and labor costs, and no lost production.

SAVINGS:

Total savings over two years – \$546,528 (\$572,400 - \$25,872 = \$546,528) (Annual savings = \$273,264)

COST SAVINGS WITH MOLUB-ALLOY 777-1ES IN LADLE TURRET BEARINGS





OTHER POTENTIAL APPLICATIONS

Castrol Molub-Alloy 777-1 ES can be used in several other melt shop heavy-duty service applications such as electric arc furnace swingroof bearings, ladle transfer cars and baghouse fans bearings.

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