

# TIRE MANUFACTURING (USA)

## STOCK PREPARATION

### Castrol Molub-Alloy® 777-2 ES grease

## SIX-YEAR SAVINGS: \$103,272



### THE SITUATION

A major tire manufacturer had repetitive failures on their mill journal bearings using a low-cost conventional EP grease.

Bearings were replaced on average one per month, leading to high maintenance and labor costs. In addition, grease usage was high on this application, requiring frequent manual re-lubrication.

Castrol was challenged to extend bearing life, reduce labor time, and generate overall lower costs.

### BEFORE CASTROL

- Conventional EP 2 grease
- Bearing failures: 12 per year, totalling \$12,000
- High labor costs: \$20,700 for bearing maint. and re-greasing
- High grease usage
- Total annual costs including grease cost: \$36,900

### AFTER CASTROL

- Castrol Molub-Alloy 777-2 ES high performance grease
- Bearing failures reduced to 2 per yr
- Labor costs reduced by nearly 2/3
- Grease usage reduced by 25%
- **Total annual costs including grease cost: \$19,688**

### THE SOLUTION

- Castrol engineers surveyed the application and determined that the main failure mode was poor lubrication from the conventional grease.
- The mill journal bearings are a heavily loaded, difficult application for the lubricant.
- Based on Castrol's experience, we chose Molub-Alloy 777-2 ES grease due to its lubricating solids additive package and high viscosity base oil.

**A large reduction in bearing failures provides \$103,272 in savings over 6 years, equating to a 2.5:1 return on investment!**

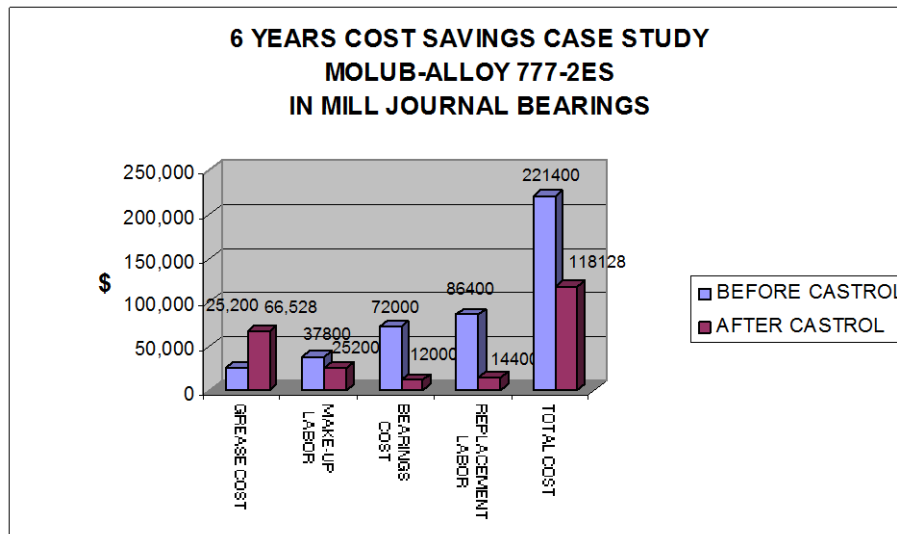
## RECOMMENDATIONS

Mill journal bearings are a heavily loaded, demanding application within a tire manufacturing facility. Conventional EP greases are not equipped to handle the extreme conditions. Castrol Molub-Alloy 777-2 ES is specifically designed with lubricating solids and a high viscosity base oil that provide the needed protection to the metal surface. The result is longer bearing life with lower grease usage.

## CONCLUSION

The customer was looking for extended bearing life and lower total maintenance costs. Castrol was able to help them achieve these goals through careful product selection and application expertise. The result is \$103,272 savings over a 6-year study.

Castrol Molub-Alloy 777-2 ES continues to exceed the customer's expectations.



## OTHER POTENTIAL APPLICATIONS

Castrol Molub-Alloy 777 ES series high performance greases are suitable for all applications where slow speeds, high loads, and shock loads are unavoidable.

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