

BUILDING PRODUCTS BEARINGS

Castrol Tribol® GR 4541 HT*

TOTAL SAVINGS: \$65,979



THE SITUATION

A major producer of fiber cement buildings materials had been experiencing problems with lubrication of autoclave cars wheels bronze bushings for several years. Despite devoting very significant amount of labor and frequent parts replacement most of the bushings were completely worn out after eight weeks in service as shown on the picture. Bushing failures were caused by extremely difficult working conditions such as high temperature and steam pressure and by improper grease in service.

BEFORE CASTROL

- Lubricant cost – \$13,320
- Annual labour cost - \$27,232
- Annual bushings cost - \$80,640



*Bushings condition
before Castrol*

AFTER CASTROL

- Lubricant cost – \$3,669
- Annual labour cost - \$11,224
- Annual bushings cost - \$40,320

THE SOLUTION

Castrol Tribol GR 4541 HT is a wide temperature lubricant designed to extend the service life of bearings when loads are heavy, temperatures are elevated and speeds are low to moderate. This grease matches the rugged service requirements of the application.

After introduction of Castrol Tribol GR 4541 HT, annual lubricant cost was reduced 3.6 times, annual labor was reduced 2.4 times and annual bushing cost was reduced 2 times.

Customer was looking for significant reduction of total maintenance cost of autoclave cars wheels bronze bushings.

Tribol GR 4541 HT Wide Temperature grease has delivered the desired benefits at the right cost.

RECOMMENDATIONS

Castrol Tribol GR 4541 HT grease matches the rugged service requirements associated with mills producing engineered woods, primary metals, castings, cement, glass and paper.

Castrol Tribol GR 4541 HT is a premium lithium complex-thickened, fully synthetic grease. The optimized base oil viscosity works synergistically with a package of additives assuring increased load capacity, anti-wear protection, corrosion inhibition, water resistance, shear stability, oxidation stability and low temperature properties.

CONCLUSION

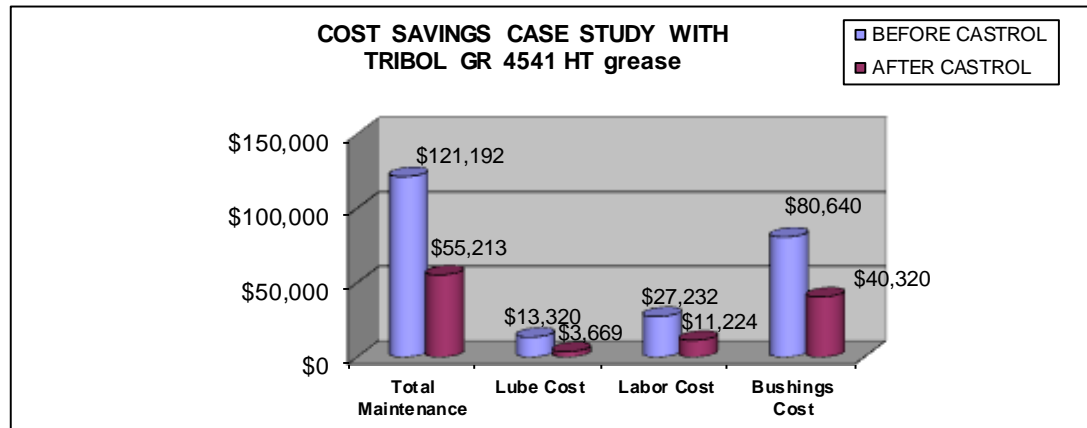
- Total annual cost of autoclave cars maintenance before Castrol Tribol GR 4541 HT grease: \$121,192
- Total annual cost of autoclave cars maintenance after Castrol Tribol GR 4541 HT grease = \$55,213.
- Total annual savings = \$65,979



OTHER POTENTIAL APPLICATIONS

Other applications may include but not limited to the following steel mill equipment:

- Conveyors and bearings near hot ingots, soaking pits and reheat furnaces
- Pit cover carriages, mill stand screws, slipper couplings, roll bearings, manipulators and guides rolls for continuous casters



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