

Reduced Bearing Failures with Tribol GR 4541 HT

ENGINEERED WOOD (USA)

Sizer / Planer Bearings

Castrol Tribol® GR 4541 HT synthetic grease*

ANNUAL SAVINGS: \$10,260



THE SITUATION

The customer was manually greasing the bearings on their sizer/planer equipment with a competitor's grease.

Regular bearing failures were a major problem for them.

BEFORE

- Competitor's conventional grease
- Manual lubrication
- **Twenty-four (24) bearing failures per year**

AFTER

- Castrol Tribol GR 4541 HT high performance grease
- Automatic lubricator installed
- **A 79% reduction in bearing failures** (only 5 per year)

THE SOLUTION

- Castrol surveyed the situation and identified that the performance of the previous grease and the inconsistent lubrication practices were leading to failures.
- Castrol assisted the customer in designing a suitable lubrication system to deliver Tribol GR 4541 HT high performance grease.
- Bearing failures were reduced from an average of 24 per year to only 5 per year.
- The previous practices of manual greasing actually lead to over-greasing and higher than necessary grease usage.
- The new lube system along with the performance of the new grease allowed for only small amounts of grease to be needed every 30 minutes, optimizing lubrication while maintaining low grease usage.

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RECOMMENDATIONS

In addition to greatly lowering bearing failures, Castrol assisted the customer with designing and monitoring the lubrication system to ensure long-term stability of the success.

CONCLUSION

Castrol Tribol GR 4541 HT plus technical expertise significantly reduced the number of annual bearing failures.

The impact was \$10,260 per year in bearing cost savings, along with less downtime and less maintenance time.



Annual Cost Comparison

	Previous Grease	Castrol Tribol GR 4541 HT
Bearing failures per year	24	5
Bearing replacement cost	\$500	\$500
Total bearing cost for 1 year	\$12,000	\$2,500
Labor cost to replace bearings	\$960	\$200
TOTAL COST	\$12,960	\$2,700
SAVINGS	-	\$10,260

New Lubrication System



OTHER POTENTIAL APPLICATIONS

Castrol Tribol GR 4541 HT grease is an excellent general purpose, high performance grease for wide temperature ranges. It was designed to handle extremely high and low temperatures where other greases typically fail.

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