

High Performance Grease / LubeCon System are a Winning Combo

BUILDING PRODUCTS (USA)

Roofing Manufacturer

Castrol Tribol® GR 4541 HT Synthetic Grease*

ANNUAL SAVINGS: \$110,653



THE SITUATION

A major roofing company was looking to reduce bearing failures on their Laminated Roofing Line (LRL). This problem was causing an average of 11.4 minutes of downtime per 10K SSQ produced.

The objective was to reduce the downtime to 5 minutes per 10K SSQ with an estimated \$81,000 in potential savings.

BEFORE

- Manual greasing
- Multiple employees greasing daily/hourly
- High bearing failure rate
- High downtime frequency (11.4 min per 10K SSQ)

AFTER

- Castrol LubeCon series progressive grease system
- Castrol Tribol GR 4541 HT synthetic grease
- Bearing failures greatly reduced
- Downtime significantly reduced (<5 min per 10K SSQ)

THE SOLUTION

- A LubeCon series progressive grease system was designed & installed on the LRL coater and cooling sections eliminating the need for plant personnel to continually hand grease the bearings.
- This system automatically greases the bearings on a schedule determined by the customer and is easily monitored from the LRL control room via PLC interface.
- Tribol GR 4541 HT grease was chosen for its proven performance in high temp applications.

- **Castrol LubeCon lube system designed & installed**
- **Proper Castrol grease, Tribol GR 4541 HT, selected**
- **The result was incredible savings**

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RECOMMENDATIONS

During the project, Tribol GR 4541 HT synthetic grease was recommended due to the high temp requirements of the coater section squeeze roller bearings. After numerous tests by plant personnel, it was determined that Tribol GR 4541 HT could be used throughout the plant, in both high and low temperature applications, thereby reducing the number of greases required by the plant and increasing the potential savings.

CONCLUSION

The key benefits were extended bearing life, reduced downtime, and more efficient use of personnel. In addition, Castrol provides other non-measurable savings through regular on-site support to ensure program success and data collection to identify potential problems early.

The result was \$110,653 in savings on one coater line with the potential for much more across the facility.



OTHER POTENTIAL APPLICATIONS

The combination of Castrol LubeCon systems and high performance lubricants can provide outstanding results for customers in terms of increased equipment reliability and overall improved maintenance costs & efficiency.

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Savings Overview

Downtime Before Castrol:

- 11.4 minutes average per 10K SSQ
- Savings goal before Castrol using 5 min per 10K SSQ: \$81,802

Downtime After Castrol:

- Castrol equipment and lubricant exceeded the plant's downtime target of 5 min per 10K SSQ resulting in an additional savings of \$28,851.
- Annual savings to date: \$110,653 (calculated by customer)