

EXTRUDED PRODUCTS (USA)

PLASTIC EXTRUSION

Castrol Optigear® 1100 gear oil*

ANNUAL SAVINGS: \$26,520



THE SITUATION

A plastic extrusion company was experiencing routine failures on their reduction and distribution gearboxes.

In addition to the high equipment costs, the oil had to be changed every year in the numerous drives. Between the gearbox rebuilds and oil changes, labor resources were being drained quickly.

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

BEFORE CASTROL

- Competitor's EP gear oil marketed as "premium" in use
- 12 to 15 gearbox rebuilds per year
- High maintenance and labor costs to rebuild gear drives
- Annual oil change-outs required

AFTER CASTROL

- Castrol Optigear 1100 high performance gear oil used
- **No gearbox failures related to lubrication!**
- Significant reduction in maintenance and labor costs
- Oil change-outs only necessary every 3 years

THE SOLUTION

- The Castrol lubrication program consisted of multiple areas of support including: equipment survey, proper lubrication and oil analysis frequencies, temperature monitoring, outage support, equipment inspections, and lubrication training.
- This program combined with the high performance of Optigear 1100 gear oil, dramatically reduced gearbox rebuilds.

Elimination of extruder gearbox failures through the high performance of Optigear 1100 gear oil and the proper Castrol support program.

RECOMMENDATIONS

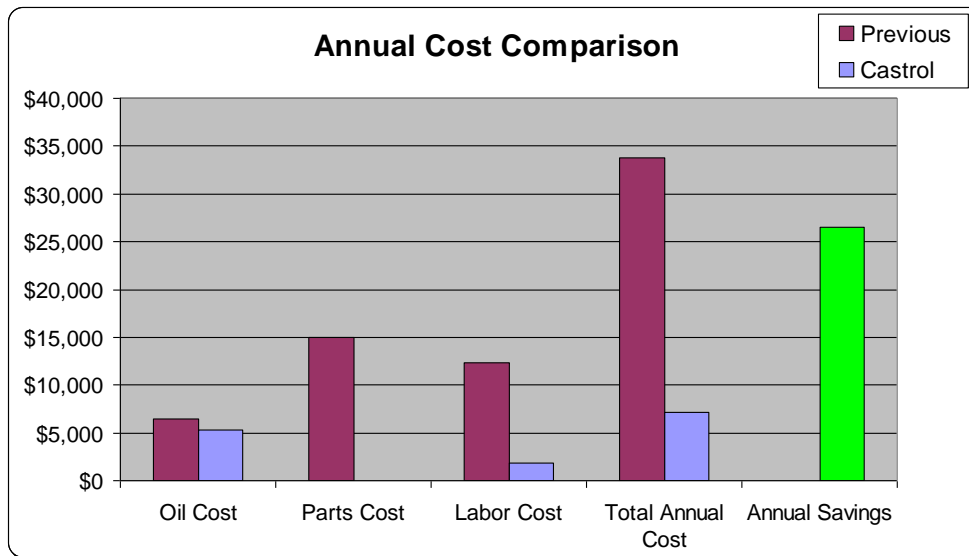
The reduction and distribution gearboxes in this facility were under heavy loads and were experiencing premature gear and bearing wear with the “premium” gear oil in use. Evaluation by Castrol lead to the use of Optigear 1100 gear oil with TGOA. The proprietary TGOA additive package actually improves the surface of the gear teeth under heavy loads, thus greatly extending the life of the gears.

CONCLUSION

Castrol delivered not only an improved lubricant but a total lubrication solution for the customer.

The result was elimination of gear drive failures and \$26,520 in total savings.

Downtime is not included in this savings but is estimated to be \$300,000 based on 150 hours per year.



OTHER POTENTIAL APPLICATIONS

Castrol Optigear 1100 series gear oils are suitable for all industrial gear applications where long equipment life and extended oil drains are required.

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