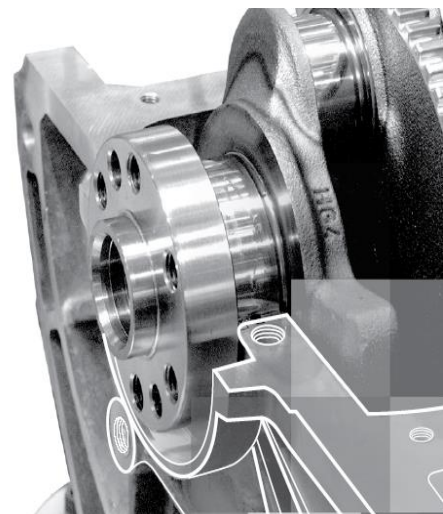


AUTOMOTIVE (USA) CASTING

Castrol Optigear® Synthetic 800/460*

ANNUAL SAVINGS: \$9,997



THE SITUATION

After just two years in service, the parallel shaft gear reducers driving the rotary screens on the mold lines failed, partially due to the extreme temperature of the reducers. Normal life expectancy of the reducers is around five years. Two reducers were used on two separate production lines.

BEFORE

- Mineral-based gear oil is used
- Premature failure of the reducers due to extreme temperature

AFTER

- Gear oil changed to Optigear Synthetic 800/460 with synthetic PAG base oil
- The new gear oil can withstand the extreme temperature, and thus protects the reducers.
- Total savings \$9,997

THE SOLUTION

- The objective was to increase the life of the reducers.
- The Castrol Engineer recommended a PAG-based synthetic gear oil that greatly expanded the high-temperature capability.
- The fluid did not break down and was able to provide the appropriate film thickness for the gears and bearings.
- The change resulted in longer life for the reducers.

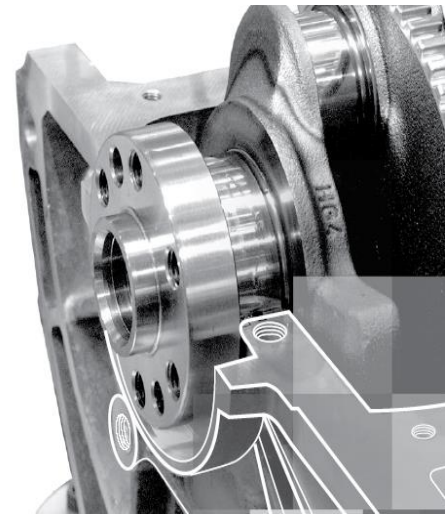
- High performance products
- Application expertise

RECOMMENDATIONS

From its past experience and extensive product knowledge, Castrol recommended changing the gear oil to help protect the reducer from high-temperatures.

CONCLUSION

The gear oil change doubled the life of the reducers and reduced the downtime associated with their replacement.



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