

# MACHINERY MANUFACTURE (USA)

## BEARINGS

Castrol Syntilo® 9954

**ANNUAL SAVINGS: \$47,693**



### THE SITUATION

A major bearing manufacturer was concerned with poor grinding wheel life. Tests were performed on coolants to determine the best possible coolant for the application.

### BEFORE

- Previous coolant (10%) with tank-side additive
- Poor grinding wheel life (10,000 parts per wheel)

### AFTER

- Castrol Syntilo 9954 recommended
- Doubled grinding wheel life on CBN wheels (22,000 parts per wheel)
- 10% increase in bearing production
- Tank-side additives eliminated

### THE SOLUTION

- Tests with several different products and concentrations were performed to measure wheel life, tooling wear and rust protection.
- Castrol Syntilo 9954 was able to maintain all other performance criteria, while doubling grinding wheel life.

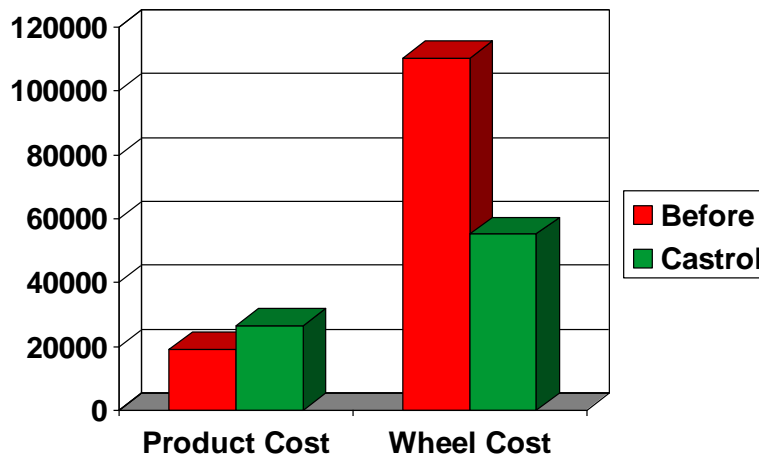
- Right product for right application
- Extensive testing proving performance

## RECOMMENDATIONS

Cost savings were only projected for one department, but additional savings throughout the plant could be achieved by changing more systems. Total projected savings for entire plant is \$174,063.

## CONCLUSION

By using a high-performance coolant, wheel life was doubled, dress rates were doubled and overall costs were reduced by \$47,693 per year in one department alone. In addition, tank-side additives were eliminated resulting in a safer working environment for employees.



## OTHER POTENTIAL APPLICATIONS

Expanding the use of synthetic coolants on a plant-wide basis could more than triple the savings and further improve worker safety.