



## CaseStudy

**The Challenge: Reduce quality problems**

**Castrol Syntilo 9930 In Bearing Roller Grind**

**\$230,000 Annual Cost Savings**

A leading bearing manufacturer was experiencing frequent quality issues in their roller grinding process, leading to significant rework and scrap rates.

Syntilo 9930 generated \$230,000 savings annually through large reduction in rework & scrap parts, while providing longer sump life and better rust protection of machines.

**Before:**

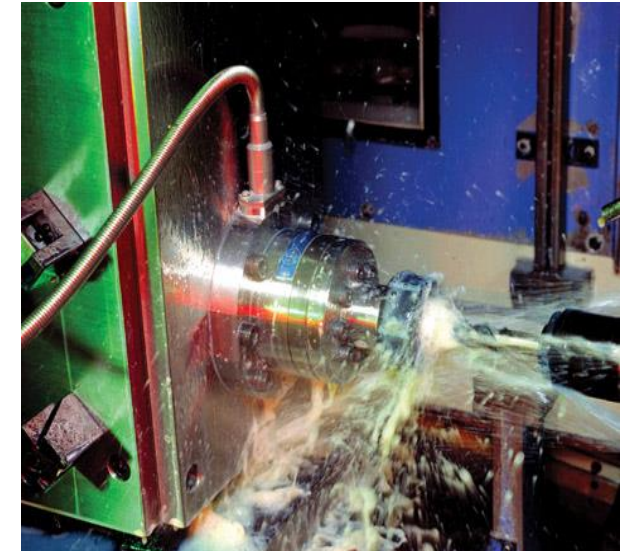
- Company "I" synthetic
- Frequent lobate (out-of-round, wavy surface) of rollers
- Corrosion of part holders and machine fixtures
- Basic coolant monitoring

**After:**

- Syntilo 9930 synthetic coolant
- Scrap & rework due to lobate was eliminated (\$180,000 savings)
- Corrosion protection greatly improved
- Coolant usage reduced (\$50,000 savings)
- Extensive coolant testing conducted weekly

**Result:** Conversion to Castrol Syntilo 9930 resulted in elimination of major quality defects, dramatically improving first time yield and the cost of quality.

Understanding the issues with the current coolant and the overall manufacturing process allowed for the correct coolant choice and ultimately significant manufacturing improvements.



*Castrol's high performance fluids and extensive application experience combined to provide the customer with overall high value from the metalworking lubricant. Castrol's program not only provided a lower total cost coolant option but the expertise necessary to drive production efficiencies.*

**Recommendations:** The Syntilo 9930 was chosen after a thorough review of the customer's process by Castrol engineers. The process required a coolant with an optimum lubrication package, one that balanced the high lubricity needed to eliminate lobate with the low lubricity requirements of the high speed Modler machines.

The increased testing regimen of the coolant allowed for corrective actions to be taken before quality problems were incurred. This moved the plant from the previous reactive mode to a more proactive maintenance approach. As a result, the plant has high confidence in the consistency of the coolant being delivered to the process, allowing it to be eliminated as a factor when manufacturing problems arise.

Castrol's customized offer is designed to go beyond simply managing fluids. It can have a significant impact on the bottom line through positive improvement in downtime, rework, scrap, first time yield, and overall cost of quality.

**Segment: Machinery Manufacturing**

**Sub Segment: Bearings -- Rings**

