



CaseStudy

The Challenge: Reduce costs and improve health & safety

Castrol Syntilo 9904 in Bearing Ring Turning

\$68,000 Annual Cost Savings

A leading bearing manufacturer was experiencing poor bacterial resistance from their ring turning coolant, creating health & safety concerns and the need for frequent changes in the central system feeding their Okuma CNC machines.

Syntilo 9904 generated \$68,000 savings annually through reduced coolant & additive usage and increased tool life, while dramatically improving health and safety conditions.

Before:

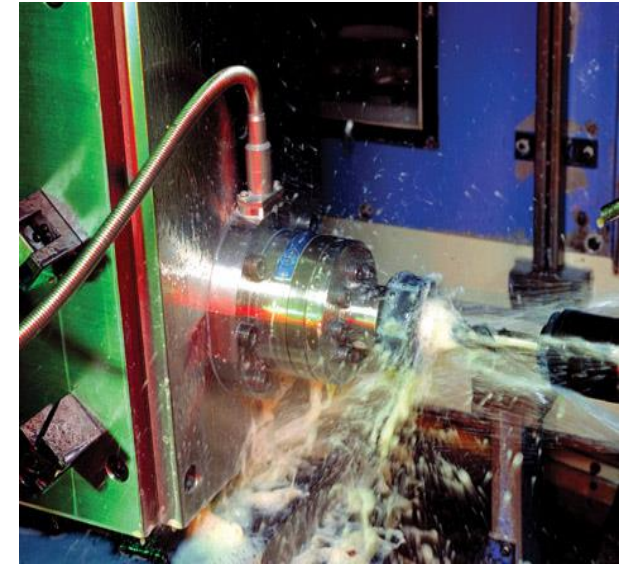
- Company "F" synthetic
- Constant bacteria growth and loss of pH
- Frequent use of biocide and pH adjusters (caustic)
- Ammonia blooms

After:

- Castrol Syntilo 9904 synthetic
- No bacteria growth or pH loss
- No additives necessary (\$9,000 savings)
- No ammonia blooms
- Improved tool life (\$15,000 savings)
- 74% reduction in coolant usage (\$44,000)

Result: The use of Syntilo 9904 has resulted in increased tool life, long sump life, low coolant make-up rates, and worry-free coolant operation.

Castrol Syntilo 9904 has provided the customer with the true benefits expected from a synthetic coolant, including long sump life, excellent bacteria resistance, and overall low cost.



The robust lubrication package in Syntilo 9904 makes it suitable for most coolant applications found in Bearing manufacturing. This feature allows for plant consolidation and purchasing & inventory efficiencies. When combined with Castrol's support, the customer experienced dramatic improvements in overall plant conditions.

Recommendations: The health & safety concerns of the previous coolant were well outside of expected performance. Weekly additions of biocide & caustic pH adjusters, along with ammonia blooms were deemed very unacceptable by the plant. Syntilo 9904 eliminated all of these concerns while increasing tool life and sump life.

Castrol engineers not only chose the appropriate coolant to improve operating conditions, they also surveyed the plant and offered recommendations for further improvements. As a result, systems to remove tramp oil and graphite (residue from forged raw materials) from the coolant were implemented, further extending sump life.

Castrol Syntilo 9904 is ideal for any area where long sump life, excellent tool life, and overall trouble-free operation are desired.

Segment: Machinery Manufacturing

Sub Segment: Bearings -- Rings

