

# MACHINERY MANUFACTURING (USA)

## BEARINGS

Castrol Syntilo® 9904

**ANNUAL SAVINGS: \$69,805**



### THE SITUATION

Okuma turning lathes are supplied coolant from a central system. The customer observed extensive biological growth and strong odor with the coolant currently in the system.

### BEFORE

- Synthetic coolant
- High coolant usage
  - 750 gallons/month
- Poor tool life
- Heavy biological growth

### AFTER

- Castrol Syntilo 9904 synthetic coolant
- Reduction in coolant usage
  - 250 gallons/month
- Coolant savings: \$44,436
- Tooling savings: \$12,000
- Freight savings: \$13,369

### THE SOLUTION

- Castrol engineers worked with technical support and the customer to determine the primary cause.
- The recommendation was made to change to Castrol Syntilo 9904 to increase tool life and reduce biological growth in the coolant system.
- The new coolant is more bio stable and odorless.
- The new coolant has increased tool life and reduced downtime.

- Improved customer HSE
- Castrol utilizes root cause analysis to find primary cause

## RECOMMENDATIONS

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The change recommended to synthetic coolant helped reduce coolant usage and improve tool life on turning lathes. Switching to a more bio-stable coolant reduced additives and eliminated health and safety concerns.

## CONCLUSION

The conversion led to a reduction in coolant usage. Including tooling and freight savings, the total savings was \$69,805

