



CaseStudy

The Challenge: Reduce coolant costs in steel machining

Castrol Syntilo 9904 in Ag Transmissions

\$246,256 Annual Cost Savings

A major agricultural equipment manufacturer was seeking a single coolant for all steel machining operations, in order to recycle coolant and recover coolant from metal chips.

Syntilo 9904 generated \$246,256 in annual cost savings through recovered coolant, increased value of metal chips, and waste treatment avoidance.

Before:

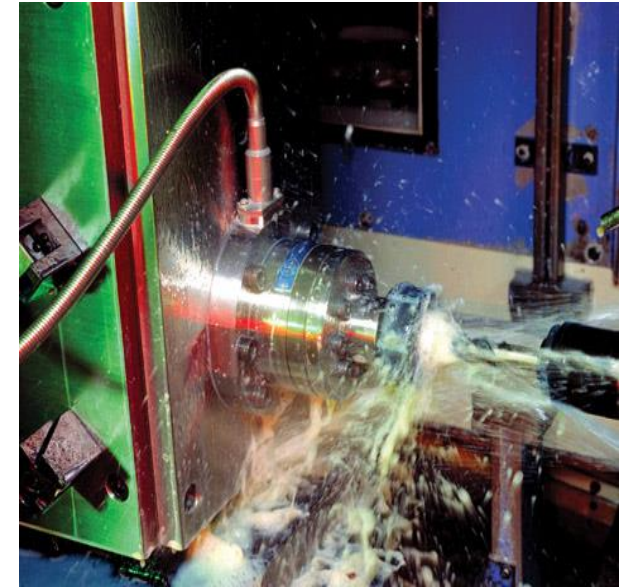
- Multiple coolants used
- No coolant recycling performed
- No coolant recovery from chips
- Chip value low due to coolant contamination
- Coolant sent to waste treatment

After:

- Single, synthetic coolant used
- Recycling implemented
- Coolant recovered from chips (\$94,158 savings)
- Increased chip value (\$148,326)
- Coolant avoids waste treatment (\$3,772)

Result: Castrol Syntilo 9904 allowed for consolidation and recycling, producing not only coolant savings but also increasing the value of scrap metal.

The long life and exceptional bacteria resistance of Syntilo 9904 synthetic coolant makes it an excellent choice for recycling.



Castrol personnel worked closely with the customer to achieve significantly lower coolant costs through the use of a single coolant and equipment designed to remove coolant from the chips and recycle it for reuse back in the plant machines.

Recommendations: The customer chose Syntilo 9904 for turning, shaping, hobbing, gundrilling, and grinding steel transmission parts, due to its ability to handle multiple operations and its chemical stability in recycling & chip recovery. Castrol personnel assisted in all aspects of testing the fluid, implementing its use, and designing/procuring the equipment necessary for it to work.

The process of identifying a single coolant was complex but made significant impact on the plant's coolant costs. The plant transitioned from multiple coolants, no recycling, and poor metal chip value to a single coolant providing the ability to recycle and recover from chips, generating a revenue stream in the open scrap metal market that did not previously exist.

Castrol Syntilo 9904 synthetic coolant has a robust lubrication and biocide package which makes it suitable for most ferrous applications while providing extremely long sump life.

Segment: Machinery Manufacturing

Sub Segment: Agri & Const -- Transmissions

