

MACHINERY MANUFACTURE (USA)

AGRICULTURE AND CONSTRUCTION COMPONENTS

Castrol Syntilo® 2109

Unique Fluid Gives New Operation A Great Start



THE SITUATION

An agricultural and construction component plant installed a new 9,000 gallon central system to expand capacity of their facility. This customer manufactures off-highway wheel hubs & shafts.

The customer chose to test coolants from three different suppliers for their new system: Castrol Industrial, Company "C", and Company "K". Company "C" was the incumbent for all applications.

This central system was purchased from another manufacturer who ran Castrol coolant in it for 8 years. The customer was impressed with the cleanliness of the system, noting that it looked 'like new'.

EVALUATION

- Customer tested all three coolants in individual machines and monitored the following:
 - Tool Life
 - Machine Cleanliness
 - Rust Protection
 - Paint Compatibility
- The competitors recommended conventional, oil-rejecting synthetic coolants
- Castrol recommended the unique, oil-absorbing synthetic chemistry of Syntilo 2109 based on its past success in cast iron applications.

THE SOLUTION

- The machines running Syntilo 2109 were able to run the most difficult operations (largest drilled and tapped holes), achieving the same or better tool life as the competitor coolants running smaller parts.
- Customer was machining 85% cast iron. Cleanliness was critical, so moving the fines back to the central system for filtration was a major concern. The oil absorbing technology in Syntilo 2109 proved to be superior over the other synthetics.
- Customer experienced issues with rusty parts and chip clinkering when using the full synthetic coolants, however the Syntilo 2109 showed no rust or clinkering problems.
- Parts machined with Syntilo 2109 were easily cleaned with the customer's wash process, and paint adhesion was not a problem.

RECOMMENDATIONS

Based on the individual machine run-off tests, the customer agreed that Castrol Syntilo 2109 was the best fluid for their new operations.

Castrol offered coolant testing through our Trending Analysis Program, which the customer greatly appreciated.

Coolant training, which covered fluid changeover procedures, general maintenance, and monitoring techniques was also provided to all operators and supervisors.

CONCLUSION

The customer charged the 9,000 gallon central system and immediately saw improved tool life versus the individual machines that were originally running the competitor's synthetic coolants. The customer also noticed that the machines were getting much cleaner, and windows covered in sludge build-up were starting to clear up.



*Wheel hub
test in
progress*



OTHER POTENTIAL APPLICATIONS

Castrol Syntilo 2109 is a unique synthetic fluid that absorbs a small amount of tramp oil to provide increased lubrication, rust prevention, and improved carrying of small fines. It is an excellent choice for cast iron systems and other ferrous metals where these benefits are needed.