

# Meeting customer needs while reducing costs

Castrol's latest cast iron coolant achieved machining goals and tool life while delivering cost savings

## Situation

A Midwest agricultural parts manufacturer was using a semi-synthetic coolant on their cast iron parts with good success, but over the years the cost of the coolant had increased significantly. The plant was in the process of testing lower cost alternatives to help them meet their cost reduction goals. The replacement fluid had to be robust enough to handle their on-site recycling process.

## Solution

Castrol determined that **Hysol 11 FF** would be a good fit for the machining applications, including turning, milling, drilling, tapping, and boring. This fluid is a low oil semi-synthetic coolant designed for machining cast iron and low-alloy steels. The cost of this coolant was significantly lower than the incumbent while meeting the customer's manufacturing needs.

## Outcome

Following an extended trial period, Hysol 11 FF maintained the existing part quality, tool life and production goals as the previous coolant. Lower foam was noted in machines with fast turn rates. The fluid also worked well in their recycling process, where coolant is recovered from chip hoppers and processed to remove tramp oil and dirt. In summary, the switch to Castrol Hysol 11 FF resulted in a **cost savings of over \$24,000 per year** and allowed the manufacturer to meet production and part quality goals.



- Over \$24,000 in savings
- Achieved tool life and part quality needs
- Lowered foam in some machines

