

Hysol MB 10 Greatly Reduces Coolant Usage

MACHINERY MANUFACTURING (USA)

AGRICULTURAL EQUIPMENT

Castrol Hysol® MB 10

Annual Savings: \$153,600



THE SITUATION

A large manufacturer of agricultural components was using a semi-synthetic coolant to machine cast iron (and small amounts of steel). The manufacturer was seeking to reduce overall costs to become more competitive in the marketplace. They were reviewing all aspects of the machining process including cutting fluid improvement.

BEFORE

- Competitor F semi-synthetic fluid used at 6-7%
- Residues in machine centers
- High usage rate (23,040 gal/yr)
- Higher price per gallon

AFTER

- Castrol Hysol MB 10 semi-synthetic coolant at 6-7%
- Reduced residues in machines
- **Reduced usage by 33%** (15,360 gal/yr)
- Lower price per gallon

THE SOLUTION

- Customer required a semi-synthetic coolant to protect the cast iron from corrosion.
- They also needed a fluid that would run clean when machining cast iron. Hysol MB 10 is very clean running and prevents smut build-up.
- Hysol MB 10 met all the requirements for the machining operations which included milling, turning, boring, drilling, cut tapping, and form tapping.
- Hysol MB 10 provided the excellent bio-resistance needed for the fluid to be recycled in the customer's batch recycling system.
- Usage was reduced by 33% from less carry out on chips & parts, due to the wetting properties of Hysol MB 10
- High operator acceptance was achieved with the use of Hysol MB 10.

Hysol MB 10 Greatly Reduces Coolant Usage

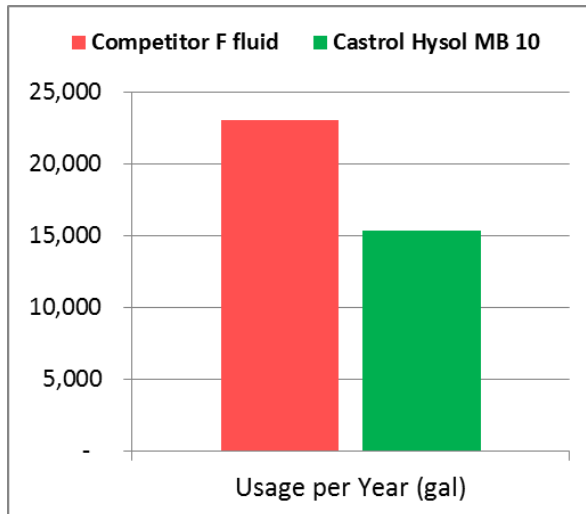
RECOMMENDATIONS

Hysol MB 10 is an excellent machining fluid for cast iron operations where high corrosion protection is needed. A good sampling and maintenance program helps keep the systems in proper operating range and avoid issues with high consumption.

CONCLUSION

The Hysol MB 10 reduced consumption by a third thanks to its excellent wetting properties, allowing it to run off of parts & chips quickly. The high detergency allows the sumps and machines to stay clean for longer periods before clean-out.

Overall savings of \$153,600 annually was generated through lower usage and price.



Typical parts manufactured at this facility

OTHER POTENTIAL APPLICATIONS

Hysol MB 10 can be used as a general purpose cutting fluid on ferrous metals. Hysol MB 10 has excellent biological resistance, corrosion inhibition, and smut control.