

# MACHINERY MANUFACTURE (USA)

## BEARINGS

Castrol Hysol® MB 50

## Quality Improvements and Bacteria Reduction



### THE SITUATION

A large bearing manufacturer was looking to improve quality and reduce biological issues associated with current coolant used in the hard turning operation of bearing raceways.

Castrol was asked by the customer to offer a solution to improve the processes.

### BEFORE

- Internal stresses were being seen with the current coolant, causing quality issues.
- Biological issues required regular tank-side biocide additions and caused operator concern.

### AFTER

- The original charge of Hysol MB 50 has been in the system for one year and is expected to last much longer.
- The use of tank-side biocide has been eliminated.
- **Quality has improved as a result of internal stress in the metal surfaces being reduced.**

### THE SOLUTION

- Right fluid for the right application
- Improved quality
- Reduced use of chemicals
- Improved operator acceptance
- Reduced coolant disposal

## RECOMMENDATIONS

Prior to the use of Hysol MB 50, the previous supplier had recommended that the customer increase the system concentration by 2% to reduce additive use and the coolant be changed at least once a year.

With the implementation of Hysol MB 50, the concentration did not need to be increased and the sump life is expected to be well beyond 1 year.

## CONCLUSION

The customer was very satisfied with the improved part quality, reduced coolant maintenance, and lower long term costs.

Due to the success with the Castrol coolant for hard turning, the customer is now considering Castrol coolants for their 28,000-gallon central system for bearing grinding.



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