

# Hysol MB 50 Outperforms Popular Coolant

## AEROSPACE (USA)

Aerospace, Defense, & Power Gen Parts

Castrol Hysol® MB 50

**ANNUAL SAVINGS: \$16,000**

### THE SITUATION

This contract machine shop consists of 40 machines making parts for the aerospace, defense and power generation markets. The materials used are difficult-to-machine alloys, including inconel, titanium, and stainless steels. They also machine 6000 and 7000 series aluminum. Recent contracts have pushed their production to the limits, running two full shifts, 6 days per week, so uptime is critical.

### BEFORE

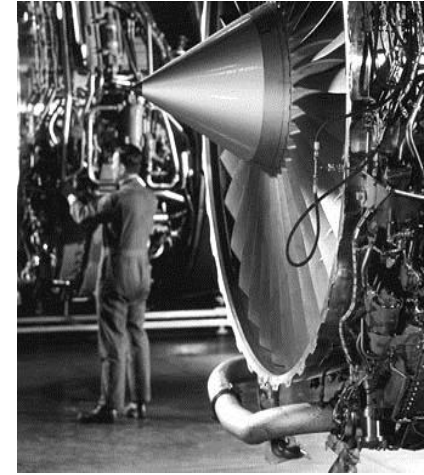
- Very popular coolant from "Company H"
- Below average sump life and cleanliness
- Aluminum staining
- High usage & disposal
- No technical support

### AFTER

- Castrol Hysol MB 50
- Doubled the sump life
- Much improved cleanliness
- No staining
- Regular technical support

### THE SOLUTION

- The customer required one coolant to be suitable for all metallurgies and operations in the plant.
- Hysol MB 50 was chosen for its proven performance on multi-metals and difficult cutting operations.
- It was tested for aluminum staining and for machining performance on nickel alloys.
- Both tests were successful. Full conversion has yielded longer sump life, lower disposal, cleaner machines, and great part finishes.



HYSOL® MB 50 is a versatile fluid that is compatible with a host of materials commonly found in a job shop environment.

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## RECOMMENDATIONS

After conversion to Hysol MB 50, operators and staff received training for proper housekeeping, personal hygiene, and best practices for tramp oil removal and concentration control. The Castrol representative monitors the sumps monthly and corrects make-up stations as needed, reporting all findings to plant management.

## CONCLUSION

The benefits included:

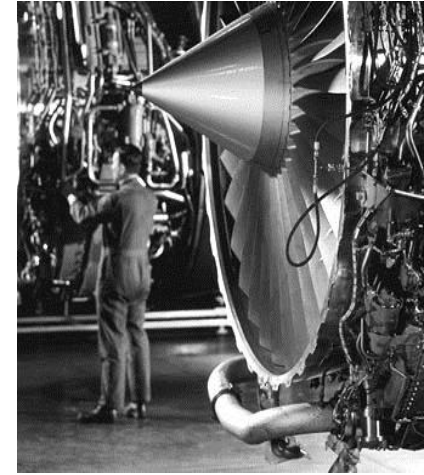
- Lower coolant consumption: \$5,000
- Less disposal & handling: \$2,000
- Reduced scrap & rework: \$9,000
- Improved cleanliness

**The result was an annual savings of \$16,000 and a very happy customer!**

This shop conducts milling, drilling and turning on titanium, inconel, stainless steel, and aluminum. They utilize Mazak, Okuma, Mori Seiki, and Yama Seiki machines.

**“MB 50 is cleaner, longer lasting, and it doesn’t stain my parts...and (the Castrol rep) helps me manage the sumps. Funny, the (Company H) guys showed up after their sales dropped off!”**

**– Facilities Manager**



## OTHER POTENTIAL APPLICATIONS

The job shop environment is dynamic, so the metalworking fluids need to be versatile and forgiving. Hysol® MB 50 performs very well in most applications and materials, with no compromise.