

JOB SHOP (USA)

AEROSPACE MACHINING

Castrol Syntilo® 9913

TOTAL SAVINGS: \$668,000



THE SITUATION

The customer shop consists of numerous machining operations, multiple machines and multiple metallurgies: 6Al-4V Titanium (both forging and raw stock), 4140 Steel (HRC 48-52), and aircraft grade Aluminum.

The customer requires different products to cover the many machining applications. A complete plant survey was performed to understand the applications.

BEFORE

- Different coolants required for diverse machining applications
- Dermal issues; poor operator acceptance
- Poor sump life in machines (4-6 weeks)

AFTER

- Greatly improved sump life (one year)
- Improved operator acceptance
- Cost savings through greater tool life (from 800 inserts per week to 150 inserts per week)

THE SOLUTION

- Castrol distribution network and application engineers analyzed the work environment, metallurgies and machining application to arrive at the fluid solution—Castrol Syntilo 9913.

- Castrol's well organized training and usable tools
- Understanding of value-add

RECOMMENDATIONS

The plant required a product that had excellent biostability to extend sump life and improved operator acceptance with odors and dermal concerns.

The plant required a product that could machine a variety of metal alloys using several types of machines and processes.

Savings calculations:

Previous

- 800 inserts per week
- Sump life 4-6 weeks

Current

- 150 inserts per week (savings \$600,000 annual)
- Sump life 1 year (savings \$68,000 annual)

CONCLUSION

Castrol Syntilo 9913 is a high-performance product that exceeded expectations in a demanding application.

This customer has very special process applications and costly tooling and Castrol Syntilo 9913 is the only product to meet their demanding requirements.

