

AEROSPACE (USA)

AIRFRAME GANTRY MILLING

Castrol Almaredge® 65*

TOTAL SAVINGS: \$685,000



THE SITUATION

A major aerospace parts company manufactures components and assemblies for Boeing, Airbus, Lockheed Martin, NASA, USAF, and others.

Materials consist of diverse alloys including 7xxx aluminum, titanium and heat treated high carbon steel. The customer operates some of the largest six-axis gantry mills in the world with nine spindles on 300-foot beds.

Castrol was challenged to offer a coolant to replace the existing synthetic fluid and reduce overall cost.

BEFORE

- High cost
- Difficult to maintain
- Machine rust
- Part corrosion
- Sticky residues

AFTER

- Entire facility on a single coolant
- Easy to maintain; no additives
- Better tool life
- No rust or corrosion
- No residues

THE SOLUTION

- Systems charged with Castrol Almaredge 65
- Excellent chemical technology employed for great performance
- Exceptionally long service life with proper management

- Right product for the right application
- Versatility
- Multi-metal
- Safe to substrates
- Cost effective

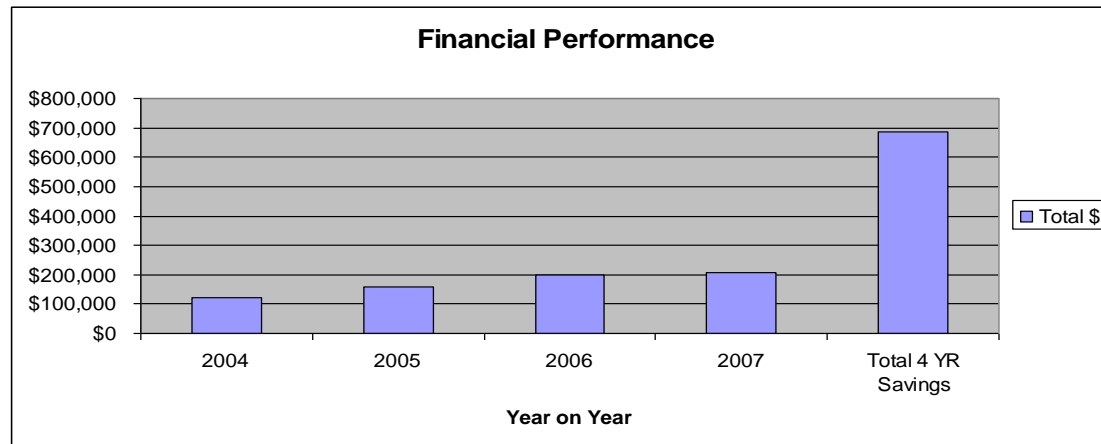
RECOMMENDATIONS

Based on a detailed needs assessment of the specific aerospace applications and metals, Castrol recommended charging all systems with Almareedge 65. A long-term plant-wide product supply contract was proposed to ensure cost efficiency, product symmetry and consistency across all machining departments and operations.

CONCLUSION

- No machine rust
- No part corrosion
- No residues
- Elimination of three additives
- One fluid in all operations.
- Up to five year service life in the 20,000 gal central system
- Symmetrical contract duration
- Accumulated cost savings

Bldg #3 Henry System Total Cost Savings



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OTHER POTENTIAL APPLICATIONS

Castrol Almareedge 65 performs equally well in:

- Turning
- Mill detail

