

# Castrol partners with customer to bring **savings** and **improvements** to Oil and Gas Manufacturing



## Alusol® SL 61 XBB Coolant for General Machining

**Metals:** Carbon steel, Inconel, nickel-resistant, stainless steel, 9 chrome, 13 chrome

**Components manufactured:** Motors, pumps, and seals for artificial lift systems



## Annual Savings: \$164,787

### SITUATION

The facility has 60 machine tools using water-based coolant. With the previous coolant, they were seeing foam in 6 machines and fungus in several others. Operators complained about odors from coolant rancidity and were doing a fluid dump and recharge as frequently as every 3-4 weeks due to odors and poor coolant performance. Coolant residues were often found on the slideways and machines.

*"We've seen, and expect future savings from the trial we ran with respect to coolant life and performance. The training we received in machine preparation, monitoring and maintenance strategies were beneficial in establishing a good foundation of predictability. Cleanliness of both the machines and in process gauging instrumentation have improved with the Castrol conversion. Tool run life with surface finish consistency have been realized as well."*

**– Gary F, Production Manager**

### RESULTS

- Tool life improvement of **13%** leading to annual tool costs savings of \$86,284
- Coolant is **clean running**, no residues on the machine, and clean slideways.
- Make-up Castrol concentration is only 1% due to coolant staying fresh and **usage staying low** with reduced carry off on the chips.
- Skin irritation eliminated and **operator acceptance** very high in the plant.

