

Alusol® SL 61 XBB – One coolant for the entire shop

Situation

A US metal goods manufacturer providing precision machining and grinding for power generation markets was experiencing issues with their coolant. The issues included poor bio-stability, sump life and part quality. The customer was interested to standardize on one metalworking fluid for the entire shop and where possible, to improve tooling performance. The metals machined include Inconel, stainless steel, and aluminum.

Solution

After a thorough investigation, the Castrol® team recommended Alusol® SL 61 XBB due to its performance characteristics and versatility in multiple metal applications. By comparison, overall usage was reduced by 15% and operator acceptance significantly increased.

Outcome

Conversion to Alusol SL 61 XBB eliminated sump odors and sump life has increased from 9 months to at least 12 months or longer. This has eliminated almost 4,000 gallons of diluted coolant going into the waste stream. Machine cleanliness also improved, allowing operators to now easily see through the machine windows for part visibility.



Savings

- Eliminated additive usage
- Improved tool life by 31%
- Reduced coolant usage by 15%
- Improved part quality with reduction of copper staining