CASE STUDY

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Heavy-duty diesel vehicle brake system manufacturing

Application: **ECOCOOL GLOBAL 3500**
Location: **United Kingdom**

Customer

A leading global manufacturer specializing in heavy-duty diesel vehicle brake systems, faced critical challenges in their machining processes.

Challenge

The customer was experiencing high coolant consumption which disrupted production resulting in inefficiencies and increased costs. The fluid's appearance deteriorated, affecting both aesthetics and performance with unpleasant smells emanating from the machining area, impacting the work environment. An accumulation of black, sticky deposits compromised machine cleanliness. Frequent tool failures led to downtime and reduced productivity. Excessive foam hindered machining operations. Maintaining consistent fluid concentrations proved challenging. The client was alarmed by the safety labelling of their incumbent products & sought safer alternatives.

Solution

To ECOCOOL GLOBAL 3500, a water-miscible machining and grinding coolant, was specifically designed for ferrous and multi-metal materials. It delivers superb surface finish, enhancing product quality whilst the fluid's longevity significantly reduces downtime for coolant changes. ECOCOOL GLOBAL 3500 eliminates the need for formaldehyde-based biocides and boron additives. The product is near odourless and non-irritating which results in an improved work environment. Global consistency - one formula, globally applicable, ensured quality across all manufacturing sites.

Advantages

- Improved tool life
- Improved machine cleanliness
- Improved working environment
- Reduced foaming
- Reduced downtime
- Reduced deposits
- Compliant labelling
- Cost savings

Results

The customer noticed substantial cost savings by eliminating tank-side additive expenses alongside reduced machine stoppages and improved tool life which enhanced productivity. The black deposits vanished leaving machines in pristine condition with happy operators. ECOCOOL GLOBAL 3500's low foaming properties controlled this former persistent issue with consistence performance across varying water hardness levels. The product was also compliant with the chemical regulations of major economies. The customer's manufacturing process was transformed leaving operators satisfied and the client's bottom line healthier.

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