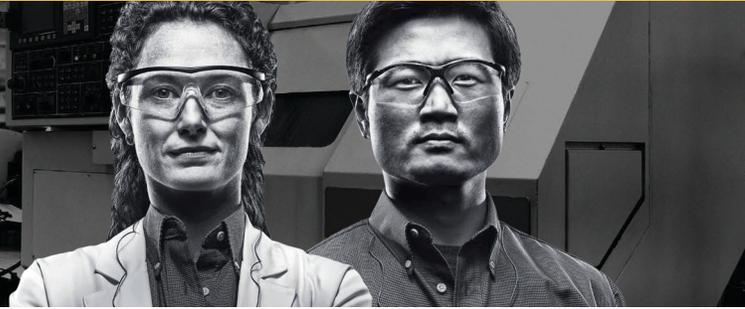


CASE STUDY



AUTOMOTIVE STEEL PART MACHINING

QUAKERCOOL® 730 TP

CHALLENGES

A leading global manufacturer in the United States producing machined steel parts for the automotive industry was looking to replace the competitive product used in 30 individual sumps. This customer wanted to address the following issues without diminishing performance:

- » Equal to or better tool life
- » Lower costs

THE SOLUTION

After surveying the various operations and materials involved in the customer's process, Quaker presented QUAKERCOOL® 730 TP as a solution. This product was chosen based on the benefits of advanced lubrication technology, excellent short-term corrosion protection and superior tool life even at low concentrations. QUAKERCOOL® 730 TP has met each challenge replacing the competitive product and the customer benefitted from:

- » **10% Coolant savings per year**
- » **Equal consumption, tool life and sump life**
- » **No change in scrap amount or rework**

"By switching our coolant provider to Quaker, we have been able to achieve consistent tool life at a lower chemical cost thanks to QUAKERCOOL® 730 TP, and the level of service provided by Quaker" says the lead engineer responsible for the project. "We are quite happy working with Quaker and have expanding our business with Quaker in another area, such as a floor cleaner, QUAKERCLEAN® 76 ITT".

PROCESS AND EQUIPMENT

Part	Engine dampers, housing and components for torque control couplings
Material	1010 Steel, cast and gray Iron
Machine	Muratec Lathes
Concentration	7-9%
System Size	30 Individual 80-100 gallon sumps
Water hardness	20-30 ppm
Operations	Machining, turning, milling, drilling/boring, tapping, and od grinding

THE PRODUCT

QUAKERCOOL® 730 TP is a high-performance, mineral oil free microemulsion proven to perform in demanding machining and grinding operations. This metalworking fluid effectively resists microbiological growth and contains no chlorinated compounds, formaldehyde release agents, Boron, MEA, or secondary amines.

THE EXPERTISE

Metalworking lubricants represent a very minor part of the costs in a metalworking process, typically less than 1%. This case illustrates the importance of correct fluid selection. The impact of the fluid can be a multiple of its costs, making the price of a metalworking fluid insignificant. That is why Quaker focuses on developing fluids with the highest performance without compromise, fluids that sharpen your competitive edge.