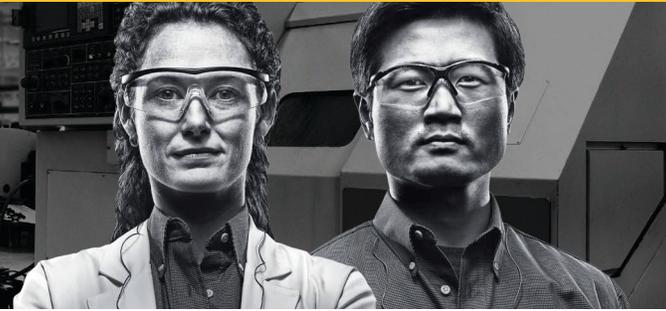


CASE STUDY



TAPPING STEEL AUTOMOTIVE COMPONENTS

QUAKERCOOL® 7450

CHALLENGES

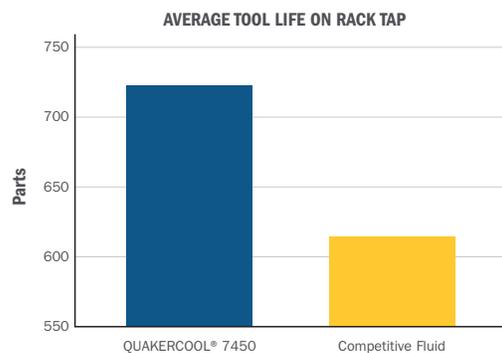
A major global automotive components manufacturer in the United States was experiencing issues with their competitive coolant including low tool life, poor surface finish, and high consumption leading to high cost. The customer was specifically looking for Quaker to:

- » Improve tool life
- » Reduce dermatitis
- » Decrease foaming

THE SOLUTION

Quaker reviewed the customer's concerns and proposed QUAKERCOOL® 7450, a semi-synthetic, low foaming micro-emulsion designed to provide the lubrication needed for demanding machining such as tapping, deep hole drilling and reaming. After several weeks in the system, the customer was able to realize the following benefits:

- » **17% Increase in tool life on rack tap**
- » Cost savings by **reducing the concentration** from 17% (competitive fluid) to 10% (QUAKERCOOL® 7450)
- » **Eliminated dermatitis issues**
- » **Extended sump life, and reduced foaming and carryout**



THE PRODUCT

QUAKERCOOL® 7450 is a high-performance, formaldehyde and boron free microemulsion ideally suited to all operations on aluminum and ferrous alloys demanding premium surface finish quality and consistent lubrication. QUAKERCOOL® 7450 is myco bacteria resistant and contains enhanced bio-resistance to extend sump life and minimize strong odors.

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.

PROCESS AND EQUIPMENT

Part	Rack Bar
Material	Steel
Water Hardness	~139ppm
Concentration	QUAKERCOOL® 7450 10% Competitive Fluid 17%
Operation	Tapping