CASE

HOBBING

QUAKERAL 370

INTRODUCTION

A major global light, medium and heavy trucks manufacturer located in Brazil was having some performance issues with their current coolant. The customer had to manage problems such as:

- Poor tool life
- Foam
- Dirty machines

IMPACT

Quaker addressed the situation by using their extensive experience in metal machining and introduced QUAKERAL 370, which produced an immediate positive impact on the machining process and bottom-line cost. The use of this product resulted in:

- Increased tool life from 2,092 parts/hob to 3,765 parts/hob, representing an annual savings of approximately $7,000 per machine!
- Reduced number of tool changes
- Elimination of foam
- Improved operator working conditions due to cleaner machines

PROCESS & EQUIPMENT INFORMATION

Operation:	Hobbing
Material:	Steel alloy
Part Produced:	Gear
Tooling:	HSS hob, TiN cover
Machines:	Pfauter
Concentration:	10%

Quaker

H O B B I N G

QUAKERAL 370

PRODUCT DESCRIPTION

QUAKERAL 370 is a heavy-duty, chlorine-free product based on solution-synthetic technology. Environmentally up-to-date, this product uses Quaker's proprietary ester technology to replace harmful extreme pressure additives. It is suitable for machining titanium, aluminum, steel, alloy steels and cast iron. QUAKERAL 370 can be used on all general metalworking applications as well as operations that include:

- Broaching
- Gun drilling
- Mapal Reaming
- Tapping
- Creep feed grinding
- Hobbing
- Turbine machining
- Neat oil replacement

CUSTOMER REFERENCES

- DaimlerChrysler
- KS Pistões
- Samot

COST-BENEFIT ANALYSIS

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 the metalworking fluid insignificant. That's why Quaker focuses on developing fluids with the highest performance without compromise, fluids that sharpen your competitive edge.

CASE