

TRI-LOGIC ALX

Performance you can trust

CUSTOMER

Prior Scientific designs and manufactures a wide range of scientific instrumentation, specialising in microscope automation and optical microscopy.

APPLICATION DETAILS AND ISSUES

Prior Scientific were very impressed with coolant management during a QA visit to one of their suppliers, an existing Rocol customer Teversham Engineering Ltd. This coincided with a routine sales call to Prior by the Rocol area sales engineer. The following issues were identified:

- ▶ Short sump-life, bad odours, high usage, high waste costs and frequent downtime. Additionally, service and back-up from their existing supplier was inadequate.
- ▶ The real 'need behind the need' though, was the fact that the factory air quality was poor, being very oily/fumy causing complaints from the offices and H&S concerns. During routine service, the HVAC filters were often blocked, requiring costly replacements.
- ▶ Materials machined ranged from predominantly aluminium to stainless steels.
- ▶ The local mains water condition is very hard with a CaCO₃ reading of @ 300ppm.

RECOMMENDED PRODUCTS AND SERVICES

ROCOL TRI-Logic ALX was proposed as a quality, pleasant to use and long-life alternative also offering superior finishes and machining performance. TRI-Logic ALX being equally suitable for machining aluminium as well as tougher steels.

TRI-Logic ALX was initially trialled in one machine with immediate improvements noted in cleanliness. ALX was then installed into the sumps of all the machine shops' machines.

The Rocol Ultracare service package was provided, including training sessions given to all shift operators. Tuned to help ensure the correct fluid condition was maintained and ensure best practice with dilution control and fluid handling; while providing regular condition reports and ensuring compliance with HSE guidelines for bacteria control.

Advice was given regarding mixing and distribution, with Dosatron mixers linked to hose-reel assemblies, placed at strategic locations around the machine-shop.

BENEFITS / COST SAVINGS

Machines are now running very stable in the sumps with a sump-life of 14months plus.

30% more costly per litre than the previous competitor product ALX has given the following agreed benefits:

- ▶ A reduction in usage, wastage and cleanout downtime, leading to reduced costs overall.
- ▶ Improved machining performance with better surface finishes and improved cycle times and tool-life.

TRI-Logic ALX, with help from the Ultracare service back-up and philosophy – and an enthusiastic reception from all at Prior Scientific, has addressed the main needs. The machine shop is now a pleasant and fume-free place to work, with positive comments from the offices.

