

CASE STUDY: ULTRAFORM[®] 306

Performance you can trust

LOCATION

Voestalpine Metsec PLC

BACKGROUND

Voestalpine Metsec PLC is the UK's largest specialist cold roll-forming company providing products for the construction and manufacturing industries. They focus on adding value through expert design, precision manufacturing and on-time in full product delivery.

Throughout 2011-2012, Voestalpine Metsec were experiencing issues with corrosion on their main cold roll forming milling line. This was becoming a great concern and a solution was needed fast.

INVESTIGATION & ANALYSIS

ROCOL were brought into play at this stage and after gaining a full understanding of the application and original problems with the current product ROCOL went away and developed a new formulation for a fully synthetic cold rolling forming oil.

The overall needs were for a product that provided excellent lubrication as well as good corrosion protection and long predictable sump life capable of withstanding degradation in a large, centralised system of around 25,000L. By utilising the 60 years plus of experience held within the technical team at the ROCOL laboratories, it was possible to develop existing formulations and adapt them to the specific needs expressed by Voestalpine Metsec...

ULTRAFORM[®] 306 was born

The changeover wasn't taken lightly either, as the mills were fed by a 25,000L central system and the cost of disposing this was considerable. Bearing this in mind, once again, ROCOL called upon its knowledge and experience in developing superior performance water soluble cutting and forming oils at highly economical dilution ratios.

The result was the development of a forming oil which gave complete and consistent protection against corrosion whilst diluting at a highly economical dilution ratios of 30:1.

SUCCESS

Not only did ROCOL succeed in removing the corrosion problems experienced by Voestalpine Metsec by introducing a superior performance product, but, it also managed to develop a product that has drastically reduced the usage of forming oils across Metsec's centralised milling system by more than 50%. The cost reductions have been significant and the peace of mind enjoyed at Voestalpine Metsec now that the corrosion issues have been resolved is worth even more.