

LUBRICUT 1144 CF, LAC 110

METAL WORKING FLUID



CUSTOMER: GLOBAL AUTOMOTIVE PARTS MANUFACTURER

PRODUCT

Lubricut 1144 CF is a high performance and versatile, chlorine-free, semi-synthetic based metalworking fluid designed specifically for demanding precision applications of both ferrous and aluminum alloys. Formulated with the latest chemical innovations for lubricity, wetting, and corrosion prevention available, Lubricut 1144 CF establishes the standard for superior performance without the need for chlorine.

LAC 110 is a liquid based alkaline cleaner used primarily in industrial applications for in-process cleaning of ferrous metals. Using the latest additives for detergency and wetting available, LAC 110 offers exceptional cleaning properties for the removal of most industrial contaminants, particularly smut and fine particulate entrained into the substrate's surface. Residual films of LAC 110 can provide corrosion protection for parts in storage and during shipping.

PROCESS AND EQUIPMENT

Industry/Market	Industrial
Product Type	Metal Working Fluid
Product Number	23120D0000 (Lubricut 1144 CF) 4102300000 (LAC 110)
Machinery Involved	Roll Forming
Description of Environment	Roll forming of automotive exterior trim—stainless steel
Volume Used	N/A
Date of Use	May 2016
Documented Cost Savings	TBD

▷ DESCRIPTION OF PROBLEM

Customer was using a competitor's synthetic coolant and experiencing scratching on stainless steel parts. The customer would increase concentration to 16% to eliminate scratched only to have a coolant residue that could not be removed by in-line cleaner/steam unit. Also, down stream a rubber extrusion is added to stainless and will delaminate in testing if the coolant has not been completely removed.

Current scrap rate at 20%.

▷ SOLUTION

Recommended Lubricut 1144 CF and LAC 110. This semi has more lubricity so that scratching did not occur when stainless was being rolled. Additionally, suggested a cleaner that could be applied by hi pressure and would remove the coolant. Trials have been successful on three of their main RF lines. Boil test to see when rubber extrusion delaminates from part has exceeded their current suppliers product.

▷ CUSTOMER TESTIMONIAL

Customer is happy that scrap rate has substantially decreased and coolant concentration can be run lower.