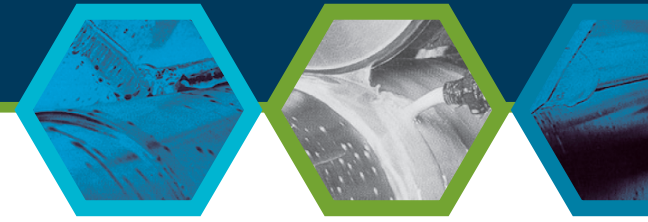


# LUBRICUT 5458

METAL WORKING FLUID



## CUSTOMER: LARGE COMPONENTS MANUFACTURER

**PRODUCT**

Lubricut 5458 is a newly developed semi-synthetic metalworking fluid formulated for the today's multi-metal machining applications.

Lubricut 5458 is a high performance metalworking fluid designed for heavy duty machining of aluminum, steel, cast iron and other alloys.

**PROCESS AND EQUIPMENT**

Industry/Market	Agriculture
Product Type	Metal Working Fluid
Product Number	2314000000
Machinery Involved	Mori Seiki NH5000 DCG CNC Machine
Description of Environment	Ag parts manufacture on 54 machines
Volume Used	110 gallons
Date of Use	Trial Date - October 2017
Documented Cost Savings	<b>\$25,400 annually in tool life</b>



### ▷ DESCRIPTION OF PROBLEM

The customer was having difficulty in tapping aluminum handle bars and motor housings for ATVs. They were using a semi-synthetic coolant with a tapping additive and were breaking the taps every eight or nine parts. Another issue is that the customer does not allow the use of chlorinated products.

### ▷ SOLUTION

- Chemtool was able to get a trial of LC 5458 and the results were outstanding.
- It had good bloom, mixed very easily, and had a pleasant scent.
  - It foamed very little even at 1000 psi with no foam build up at all.
  - On the first day of the trial they tapped 40 holes with literally no degradation of the tapping tool.
  - After six months in the machine the product still has a very tight emulsion, excellent boundary lubrication, low foam, good corrosion protection and has resisted microbiological growth.

### ▷ CUSTOMER COMMENTS

On the very first day of the trial we received the following email from the plant's leading engineer, "Tested new coolant out, tapped 40+ M10 x 1.25 threads without issue. No-Go went 1/4 turn on first hole and the same on the last hole, threads look great, I think we've got a winner!"

They switched from aluminum to cast iron on the machine for a specific part and experienced a ten point improvement in the finish. The customer is very impressed with the performance of LC 5458.