

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2004

DateRun: 01/07/2004

Experimenters: Dave Hout

ClientType: Lab

ProjectNumber: Project #1

Substrates: Stainless Steel

PartType: Coupon

Contaminants: Cutting/Tapping Fluids

Cleaning Methods: Immersion/Soak

Analytical Methods: Gravimetric

Purpose: Laboratory evaluations of alternative cleaning products

Experimental Procedure: Basic cleaning performance testing was conducted using ASTM G122 as the bases for cleaning. One product was heated to 130 F on a hot plate and two products were used at full strength. Nine preweighed coupons were coated with Cutting Fluid - Remi Corp ReLion and allowed to dry for a half an hour and reweighed. Three coupons were cleaned in each solution for 5 minutes using stir-bar-agitation, rinsed in a tap water bath for 15 seconds at 120 F and dried using air blow off for 30 seconds at 68 F. Coupons were allowed to dry for a half an hour and then reweighed a final time. Efficiencies were calculated.

## Results:

### Summary:

|                                |                        |                        |                    |                                     |                      |
|--------------------------------|------------------------|------------------------|--------------------|-------------------------------------|----------------------|
| <b>Substrates:</b>             |                        | Stainless Steel        |                    |                                     |                      |
| <b>Contaminants:</b>           |                        | Cutting/Tapping Fluids |                    |                                     |                      |
| <b>Company Name:</b>           | <b>Product Name:</b>   | <b>Conc.:</b>          | <b>Efficiency:</b> | <b>Effective:</b>                   | <b>Observations:</b> |
| BetzDearborne Laboratories Inc | Custom Clean N CC 2278 | 100                    | 77.10              | <input type="checkbox"/>            |                      |
| Chemtronics Inc                | Super Bio Wash         | 100                    | 86.63              | <input checked="" type="checkbox"/> |                      |
| Valtech Corporation            | Valtron SP 2500        | 5                      | 98.93              | <input checked="" type="checkbox"/> |                      |

Conclusion: Two out of three products were effective at removing the contaminant at an efficiency rate of over 86%