# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2002

DateRun: 03/24/2002

Experimenters: Jason Marshall

ClientType: Metal

ProjectNumber: Project #1

Substrates: Alloys, Tin, Lead

PartType: Coupon

Contaminants: Cutting/Tapping Fluids, Lubricating/Lapping Oils, Oil

Cleaning Methods: Ultrasonics

Analytical Methods: Visual

Purpose: To identify possible aqueous alternatives for cleaning lead/tin parts

Experimental Procedure: Using the laboratory database of past testing and vendor supplied information, two lists were generated based on the specific client information.

Results:

| Vendor Criteria | | | |
|---|---|---|---|
| Contaminant | Equipment | Substrate | Total |
| Cutting/Tapping Fluids | Ultrasonics | Alloys | 80 |
| Cutting/Tapping Fluids | Ultrasonics | Aluminum | 174 |
| Cutting/Tapping Fluids | Ultrasonics | Tin | 109 |
| Lubricating/ Lapping Oils | Ultrasonics | Alloys | 88 |
| Lubricating/ Lapping Oils | Ultrasonics | Aluminum | 190 |
| Lubricating/ Lapping Oils | Ultrasonics | Tin | 123 |

Summary:

Conclusion: Cleaning projects vary from case-to-case. To obtain more detailed information about any of the products listed, contact the lab at (978)934-3133 or through email.

Please note: The Toxics Use Reduction Institute’s Surface Cleaning Laboratory can supply MSDSs and any available Technical Data Sheets for all chemical cleaners tested. Not all cleaners tested are ranked equally for environmental, health and safety considerations; some are selected for comparative purposes only. The most accurate, up-to-date information concerning cleaning chemistries can be obtained at the Institute’s Technology Transfer Center (TTC) using DatabaseTOMES: Toxicological, Occupational, Medical and Environmental Series.