CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2002

DateRun: 11/25/2002

Experimenters: Heidi Wilcox

ClientType: Lab

ProjectNumber: Project #1

Substrates: Aluminum

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.

Cleaning: 5 min Immersion cleaning with stir-bar agitation @ 120 F
Rinsing: 1/2 min, manual, in 120 F water (tap)
Drying: 1 min with heat gun @ 500F
Contaminant: CRC Cutting Oil
CAS# 64742-52-5, 75-28-5, 74-98-6

Results:

Summary:

Substrates:	Aluminum				
Contaminants:	Cutting/Tapping Fluids				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
Buckeye International	XL 100 Cleaner & Degreaser	5	100.56	☑	
Buckeye International	Immersion Cleaner	5	100.35	☑	
Buckeye International	Ambush	5	157.13	☐	Coupon maybe not clean and cleaner removed oil and innitial residue or it could have damaged aluminum
SOQ Environmental Technology	Ecomate FN	5	97.60	☑	
Simple Green	Concentrated Industrial Strength Cleaner and Degreaser	5	90.97	☑	
Magnaflux	Daraclean 236	5	67.55	☐	Solidified oil, chunky and turned it yellow. Possibly a more vigorous spray rinse may have helped efficiency.
Magnaflux	Daraclean 203	5	110.98	☐	coupon mayhave had residue on it and cleaner cleaned it off or damaged to alluminum could of occurred.

Conclusion: