CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2003

DateRun: 03/30/2003

Experimenters: Jason Marshall

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 102 F water (tap)
Drying: 30 seconds air blow off, 68 F
Contaminant: Elton Corp Option 1 Cutting Fluid CAS# 1312-76-1, 265-18-2

Results:

Summary:

Substrates:	Aluminum				
Contaminants:	Cutting/Tapping Fluids				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
Metabolix Inc	Metabolix E3HB	100	38.29	☐	
Florida Chemical Company	Citrus Burst 7	100	57.72	☐	
Brulin Corporation	Nature Sol 100	100	93.50	☑	
Twin Rivers Technologies	Methyl Ester 1618	100	40.51	☐	
AG Environmental Products	Canola Gold CE110	100	75.80	☐	
AG Environmental Products	Soy Clear 1500	100	76.36	☐	
Vertec BioSolvents	Take Off Green	100	75.51	☐	
Vertec BioSolvents	Paint stripper	100	85.83	☑	
Vertec BioSolvents	VertecBio Gold Unscented Part Cleaner	100	72.24	☐	
Pentone Corporation	Citrikleen XPC	100	99.65	☑	
Inland Technologies Inc	Citrasafe	100	99.77	☑	

Conclusion: After cleaning, wiping was performed to see if efficiencies would increase significantly. Trial 256 shows these results.