CLEANING LABORATORY EVALUATION SUMMARY

SCL #:	2002
DateRun:	09/09/2002
Experimenters:	Heidi Wilcox
ClientType:	Lab
ProjectNumber:	Project #1
Substrates:	Stainless Steel
PartType:	Coupon
Contaminants:	Cutting/Tapping Fluids
Cleaning Methods:	Ultrasonics
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. Degassing: Degassing the solution by keeping solutions in ultrasonic crest for 2 min at 120 F. Cleaning: Ultrasonic for 2 min. at 120 F. Rinsing: 1/2 min. manual with water at 120 F. Drying: 1 min with heat gun @ 500F Contaminant: Steco Corp, Tap Magic Protap (cutting fluid) CAS# 112-80-1(>75%) Aliphatic organic acid 112-62-9 (<15%) Aliphatic organic ester
Results:	

Summary:

Substrates:	Stainless Steel				
Contaminants:	Cutting/Tapping Fluids				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
EcoLink	Bulldog	5	96.95	☑	
Innovative Organics Inc	Amberclean Q3	5	91.30	☑	
AG Environmental Products	Soy Clear 1500	100	93.93	☑	
AG Environmental Products	Canola Gold CE110	100	88.07	☑	
Phase III Inc	California Parts Washer Solution	5	92.97	☑	
PCI of America	Hurrisafe 9575	5	90.15	☑	

Conclusion: Heated ultrasonics did not change efficiency significantly.