CLEANING LABORATORY EVALUATION SUMMARY

SCL #:	2004
DateRun:	01/05/2004
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. Seven products were heated to 130 F on a hot plate and one product was used at full strength. Twenty-four preweighed coupons were coated with Cutting Fluid - Remi Corp Re Lion 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:

Substrates:	Stainless Steel				
Contaminants:	Cutting/Tapping Fluids				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
Man Gill Chemical Company	Gillite 1156	100	60.55	☐	
Hubbard Hall Inc	Ram Charger	5	74.94	☐	
Hurri Kleen Corportion	HurriSafe - Hot Immersion Degreaser	5	99.91	☑	
Heatbath Corporation	MultiKleen LX 1573	5	102.42	☑	
Chemkleen International Inc.	CT 1 Multipurpose Cleaner	5	101.28	☑	
Buckeye International	Work Out	5	102.94	☑	
Delta Omega Technologies Ltd	Attar D(R3)	5	99.97	☑	
Equinox Products	Natural Solutions	5	102.60	☑	

Conclusion: 6 out of 8 products were effective at removing the contaminant at an efficiency rate of >99%