CLEANING LABORATORY EVALUATION SUMMARY

SCL #:	2003
DateRun:	10/23/2003
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. One product was used at full strength at room temperature and seven others were heated to 130 F on a hot plate. Twenty four preweighed coupons were coated with 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:**
AW Chesterton	217 Pressure wash	5	62.80	☐	
Alconox Inc	Liquinox	5	101.90	☑	
Bio Chem Systems	Bio T Parts Washer NR	5	101.05	☑	
Dow Chemical Company	PnB Glycol Ether	5	103.16	☐	
Hubbard Hall Inc	Aquasonic 201	5	82.55	☐	
Magnaflux	Daraclean 235	5	69.66	☐	
Man Gill Chemical Company	Gillite 0650 Cl	5	101.42	☑	
Finger Lakes Chemical	Safer Stuff	100	104.00	☐	

Conclusion: Three out of eight products were effective at removing the contaminant at an efficiency rate of over 85% and under 102%.