CLEANING LABORATORY EVALUATION SUMMARY

SCL #:	2003
DateRun:	10/30/2003
Experimenters:	Dave Hout
ClientType:	Lab
ProjectNumber:	Project #1
Substrates:	Stainless Steel
PartType:	Coupon
Contaminants:	Lubricating/Lapping Oils
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. Eight products were heated to 130 F on a hot plate. Twenty-four preweighed coupons were coated with Lubricant Houghton MTC-53 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:	Lubricating/Lapping Oils				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
AW Chesterton	217 Pressure wash	5	102.06	☑	
Alconox Inc	Liquinox	5	99.44	☑	
Bio Chem Systems	Bio T Parts Washer NR	5	98.67	☑	
Buckeye International	XL 100 Cleaner & Degreaser	5	100.47	☑	
Dow Chemical Company	PnB Glycol Ether	5	86.15	☑	
Man Gill Chemical Company	Gillite 0650 Cl	5	93.38	☑	
Today & Beyond	Beyond 2003	5	99.57	☑	
US Polychem Corporation	Polychem A 2000 P	5	97.81	☑	

Conclusion: All products were effective at an efficiency rate of over 85%.