CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2003

DateRun: 11/02/2003

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 LPS Magnum Teflon 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	98.99	☑	
Alconox Inc	Liquinox	5	97.04	☑	
Bio Chem Systems	Bio T Parts Washer NR	5	97.01	☑	
Buckeye International	XL 100 Cleaner & Degreaser	5	100.04	☑	
Dow Chemical Company	PnB Glycol Ether	5	99.04	☑	
Man Gill Chemical Company	Gillite 0650 Cl	5	99.15	☑	
Today & Beyond	Beyond 2003	5	98.73	☑	
US Polychem Corporation	Polychem A 2000 P	5	99.30	☑	

Conclusion: All products were effective at an efficiency rate of over 95%