

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2003

DateRun: 10/31/2003

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	<input checked="" type="checkbox"/>		
Alconox Inc	Liquinox	5	99.44	<input checked="" type="checkbox"/>		
Bio Chem Systems	Bio T Parts Washer NR	5	98.67	<input checked="" type="checkbox"/>		
Buckeye International	XL 100 Cleaner & Degreaser	5	100.47	<input checked="" type="checkbox"/>		
Dow Chemical Company	PnB Glycol Ether	5	86.15	<input checked="" type="checkbox"/>		
Man Gill Chemical Company	Gillite 0650 Cl	5	93.38	<input checked="" type="checkbox"/>		
Today & Beyond	Beyond 2003	5	99.57	<input checked="" type="checkbox"/>		
US Polychem Corporation	Polychem A 2000 P	5	97.81	<input checked="" type="checkbox"/>		

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