CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2003

DateRun: 12/12/2003

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.

Four products were heated to 130 F on a hot plate and four others were used at full strength. 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. Effeciencies were calculated.

Results:

Summary:

Substrates:	Stainless Steel				
Contaminants:	Lubricating/Lapping Oils				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
EcoLink	Positron	100	99.21	☑	
Man Gill Chemical Company	Gillite 1156	100	99.41	☑	
Nensco	DT 600 Press Wash	100	98.66	☑	
Nensco	USA Wash	100	99.40	☑	
Hurri Kleen Corportion	HurriSafe - Hot Immersion Degreaser	5	98.49	☑	
Brulin Corporation	Nature Sol 100	5	96.01	☑	
Hubbard Hall Inc	Ram Charger	5	98.86	☑	
Quaker Chemical	Formula 625 XL	5	99.16	☑	

Conclusion: All products were effective at removing the lubricant at an efficiency rate of 99%