CLEANING LABORATORY EVALUATION SUMMARY

SCL #:	2008
DateRun:	10/02/2008
Experimenters:	Daniel Pina
ClientType:	Lab
ProjectNumber:	Project #1
Substrates:	Stainless Steel
PartType:	Coupon
Contaminants:	Greases
Cleaning Methods:	Immersion/Soak
Analytical Methods:	Gravimetric
Purpose:	To check these nontoxic industrial cleaning products for grease removal.
Experimental Procedure:	Basic cleaning performance testing was conducted using ASTM G122 as the bases for cleaning. Products were based on the compatibility of substrate and removal of foreign substance. Used 5% concentration and heated the samples at 135F. The coupons were immersed in a product for 5 minutes, rinsed for 30 seconds in tap water at 120F and dried in 30 seconds using compressed air is room temperature. Coupons were coated with industrial grease waste. Using a handheld swab and allowed to dry for 24 hours at room temperature. The contaminated coupons were weighed again to determine the amount of soil added. After cleaning process the final weights were recorded, efficiencies were calculated and recorded.

Results:

Cleaner	Initial wt	Final wt	% Removed
PCL of America Hurisafe 9100 paint prep			
	1.0072	0.9362	7.05
	0.4219	0.3784	10.31
	0.2757	0.3350	-21.51
Brulin Corportation formula 815 MX AA			
	2.1985	2.0443	7.01
	0.2557	0.3972	-55.34
	0.5665	0.5539	2.22
Ecolink Heavyweight			
	0.6772	0.6560	3.13
	0.1384	0.1872	-35.26
	1.4277	1.4700	-2.96
BioGenesis Enterpriseinc. BG Clean 648			
	0.6744	0.6088	9.73
	0.8857	0.5671	35.97
	1.0845	0.6947	35.94
Chem free corporation SW6 metals degreasing solution			
	1.0859	1.1063	-1.88
	0.5078	0.5323	-4.82
	0.7084	0.6632	6.38
A1 Hydro Park Hill Chemical Sw Wash 10 aircraft cleaner			
	1.0106	0.7205	28.71
	0.8730	0.6750	22.68
	1.3727	1.0431	24.01

CLEANING LABORATORY EVALUATION SUMMARY

Brulin Corporation Aqua Safe			
	0.3560	0.3062	13.99
	2.0617	2.0733	-0.56
	0.4210	0.4520	-7.36

Summary:

Substrates:	Stainless Steel				
Contaminants:	Greases				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
PCI of America	Hurrisafe 9010	5	-1.38	☐	
Brulin Corporation	815 QR	5	-15.37	☐	
EcoLink	Heavy Weight Non Butyl Detergent	5	-11.70	☐	
BioGenesis Enterprises Inc	BG Clean 648	5	27.21	☐	
Chem Free Corporation	SW-6 Ozzy Juice Select Metals Degreasing Solution	5	-0.11	☐	
A 1 Hydro Parke Hill Chemical	SW Wash 10 Aircraft Cleaner	5	25.13	☐	
Brulin Corporation	Aqua Safe	5	2.02	☐	

Conclusion:

With the data provided based on the results these three products BG Clean 648, SW Wash 10 Aircraft cleaner, and Aqua safe could perform much better at a higher concentration. This is based on the percentage of removal that these products performed under