

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2001
 DateRun: 11/19/2001
 Experimenters: Ravi Krishnappa
 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.
 (i) 5 minute immersion cleaning with stir bar agitation @ 120 degree F.
 (ii) 30 sec manual rinse with water @120 degree F.
 (iii) air drying for about 24 hours.
 CONTAMINANT INFO: Quench Oil

Results:

Product	Company	Conc.	Avg % Removal
Solution 2000	Clean Safe Solutions	10%	66.9

Summary:

Substrates:	Stainless Steel				
Contaminants:	Lubricating/Lapping Oils				
Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
EnviroSan Products Ltd	Solution 2000	10	66.90	<input type="checkbox"/>	
LPS Laboratories	Precision Clean Concentrate	10	96.50	<input type="checkbox"/>	
EcoLink	Heavy Weight Non Butyl Detergent	10	61.10	<input type="checkbox"/>	
Cleaning Systems	Release	10	90.80	<input checked="" type="checkbox"/>	
Ardrox Inc	6333	25	96.40	<input checked="" type="checkbox"/>	
Baum's Castorine Company Inc	EZE Oil-Grease Cleaner	25	97.40	<input checked="" type="checkbox"/>	

Conclusion: Ultrasonic tests on precision clean and heavyweight are necessary to further support their effectiveness. Unlike all other cleaners used in this test, these two cleaners are reported to be aqueous and non-alkaline, non butyl cleaners, respectively.