CLEANING LABORATORY EVALUATION SUMMARY

SCL #:	2003
DateRun:	11/20/2003
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. Six products were heated to 130 F on a hot plate and two products were used at full strength. 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:**
Chemtronics Inc	Super Bio Wash	100	105.28	☐	
BCS Company	251 SR	58	102.35	☑	
Calgon Corporation	Geo Guard 3015	5	99.17	☑	
Buckeye International	Work Out	5	103.99	☐	
Delta Omega Technologies Ltd	Attar D(R3)	5	101.14	☑	
Equinox Products	Natural Solutions	5	102.71	☑	
Chemkleen International Inc.	CT 1 Multipurpose Cleaner	5	102.39	☑	
BetzDearborne Laboratories Inc	Custom Clean N CC 2278	100	87.50	☑	

Conclusion: All products were effective at an efficiency rate of over 87%. Two products removed over 93% and were considered ineffective due to compatibility.