CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2003

DateRun: 12/04/2003

Experimenters: Dave Hout

ClientType: Lab

ProjectNumber: Project #1

Substrates: Stainless Steel

PartType: Coupon

Contaminants: Greases

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.

Seven products were heated to 130 F on a hot plate and one product was used at full strength. Twenty-four preweighed coupons were coated with Grease - CRC Industries Multipurpose Super White Grease (647-41-96-4, 7620-77-1, 1314-13-2, 57885-77-3, 13463-67-7) 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:	Greases				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
BetzDearborne Laboratories Inc	Custom Clean N CC 2278	100	94.59	☑	
Buckeye International	Work Out	5	99.35	☑	
Calgon Corporation	Geo Guard 3015	5	5.11	☐	
Delta Omega Technologies Ltd	Attar D(R3)	5	53.95	☐	
Hurri Kleen Corportion	HurriSafe - Hot Immersion Degreaser	5	80.81	☐	
Heatbath Corporation	MultiKleen LX 1573	5	98.72	☑	
International Products Corporation	Zymit	5	8.08	☐	
Magnaflux	Daraclean 235	5	29.91	☐	

Conclusion: Three out of eight products were effective at an efficiency rate of over 94%