CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2003

DateRun: 12/02/2003

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 - Daubert Chemical Co. Tectyl 891 Class I Cosmoline 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	75.07	☐	
Buckeye International	Work Out	5	37.22	☐	
Calgon Corporation	Geo Guard 3015	5	-51.91	☐	
Delta Omega Technologies Ltd	Attar D(R3)	5	40.52	☐	
Hurri Kleen Corportion	HurriSafe - Hot Immersion Degreaser	5	17.77	☐	
Heatbath Corporation	MultiKleen LX 1573	5	49.27	☐	
International Products Corporation	Zymit	5	-81.70	☐	
Magnaflux	Daraclean 235	5	8.92	☐	

Conclusion: None of the products are effective at removing the contaminants.