CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2004

DateRun: 02/01/2004

Experimenters: Dave Hout

ClientType: Lab

ProjectNumber: Project #1

Substrates: Stainless Steel

PartType: Coupon

Contaminants: Oil

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 Oil - Mineral Oil (8012-95-1) 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:	Oil				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
BetzDearborne Laboratories Inc	Custom Clean N CC 2278	100	89.96	☑	
Chemtronics Inc	Super Bio Wash	100	87.87	☑	
Buckeye International	Work Out	5	77.95	☐	
Delta Omega Technologies Ltd	Attar D(R3)	5	93.98	☑	
Chemkleen International Inc.	CT 1 Multipurpose Cleaner	5	94.65	☑	
Equinox Products	Natural Solutions	5	99.11	☑	
Hurri Kleen Corportion	HurriSafe - Hot Immersion Degreaser	5	97.40	☑	
Heatbath Corporation	MultiKleen LX 1573	5	98.13	☑	

Conclusion: Seven out of the eight products were effective at an efficiency rate of over 89%