CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2004

DateRun: 03/22/2004

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.

One product was used at full strength and seven products were heated to 130 F on a hot plate. Twenty-four preweighed coupons were coated with Oil-Benecyn B-5186 (64742-5, 9003-29-6, 3964-69-2, 63197-48-8) 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:**
AW Chesterton	217 Pressure wash	5	23.38	☐	
Buckeye International	XL 100 Cleaner & Degreaser	5	90.67	☑	
Calgon Corporation	Geo Guard 3015	5	20.22	☐	
Dow Chemical Company	XUS 40571 Development Solvent	100	99.15	☑	
Jet Lube Inc	Jet Lube 5000	5	59.36	☐	
Hubbard Hall Inc	Ram Charger	5	9.66	☐	
Man Gill Chemical Company	Gillite 1156	5	17.46	☐	
Nensco	DT 600 Press Wash	5	98.51	☑	

Conclusion: Three out of the eight products were effective at removing the contaminant at an efficiency rate >90%