CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2003

DateRun: 12/28/2003

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.

Four products were heated to 130 F on a hot plate and two products were used at full strength. Eighteen preweighed coupons were coated with Greese - 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. Effeciencies were calculated.

Results:

Summary:

Substrates:	Stainless Steel				
Contaminants:	Greases				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
Nensco	DT 600 Press Wash	100	86.00	☑	
Nensco	USA Wash	100	84.32	☐	
Quaker Chemical	Formula 625 XL	5	98.67	☑	
SOQ Environmental Technology	Ecomate FN	5	97.44	☑	
Valtech Corporation	Valtron SP 2500	5	98.11	☑	
Watson Technical Associates	Watson Formula 9000	5	97.41	☑	

Conclusion: Seven out of the eight products were effective at removing the contaminant at an efficiency rate of over 86%