CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2002

DateRun: 01/18/2002

Experimenters: Purav Dave

ClientType: Lab

ProjectNumber: Project #1

Substrates: Stainless Steel, Steel

PartType: Coupon

Contaminants: Buffing/Polishing Compounds, Greases, Inks, Rust/Scale

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.

Cleaning: 5 min. immersion cleaning at 120 F with stir-bar agitation.
Rinsing: 1/2 min. manual with water at 120 F.
Drying: 1 min. with heat gun at 500 F.
Contaminant:
1. Buffing compound: The lea Manufacturing company-Learock 2-b-111 (14808-60-7)
2. Ink, Dykem Ink (64-17-5, 123-86-4, 71-36-3, 9004-70-0, 67-63-0, 8004-87-3
3. Grease, Keystone KSL 111 (123-86-4, 71-36-3, 9009-70-0, 67-63-0, 8009-87-3)
4. Rust (on steel)

Results: Polyspray: No significant removal of rust on rusted coupons was seen.

Summary:

Substrates:	Stainless Steel, Steel				
Contaminants:	Buffing/Polishing Compounds, Greases, Inks, Rust/Scale				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
Simple Green	Simple Green D	5	86.58	☑	buffing compound
Transene Company, Inc.	D Greeze 1000	100	105.30	☐	buffing compound
US Polychem Corporation	Polyspray Jet 790 C	5	105.26	☐	
Simple Green	Simple Green D	5	-6.20	☐	ink
Magnaflux	Daraclean 235	5	49.24	☐	grease
US Polychem Corporation	Polyspray Jet 790 C	5		☐	rust

Conclusion: