CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2002

DateRun: 02/10/2002

Experimenters: Purav Dave

ClientType: Lab

ProjectNumber: Project #1

Substrates: Stainless Steel

PartType: Coupon

Contaminants: Buffing/Polishing Compounds, Cutting/Tapping Fluids, Greases

Cleaning Methods: Ultrasonics

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.

1. Buffing compound - The Lea Manufacturing Company Learok 2-B-111 - Abrasive, Fatty acids, Glycerides and petroleum wax/oil mix-silica dust (14808-60-7)
2. Grease - Elf Lubricants, Keystone KSL-111 Synthetic Tacky Grease (64742-478, 8052-42-4)
3. Lubricant - ITW Devkon Safetap stick, grinding lubricant, contains TSRK 80100221-5000P, TSRK 80100221-5001P, TSRK 80100221-5002P

Results:

Summary:

Substrates:	Stainless Steel				
Contaminants:	Buffing/Polishing Compounds, Cutting/Tapping Fluids, Greases				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
Simple Green	Simple Green D	5	106.20	☐	Contaminant:Buffing compund, Method: Ultrasonic
Watson Technical Associates	Watson Formula 7300	5	92.81	☑	Contaminant: Grease, Method: ultrasonic
Watson Technical Associates	Watson Formula 7300	5	89.39	☑	Contaminant: Grease, Method: immersion with stirbar agitation
Watson Technical Associates	Watson Formula 7300	5	83.26	☐	Contaminant: Grease, Method: immersion with air sparging system
JDI Inc	Mirachem 500 RTU	5	97.49	☐	Contaminant: Lubricant, Method: Ultrasonic

Conclusion: For cleaning grease with Watson Formula 7300- ultrasonic was found to be the most effective.