CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2003

DateRun: 09/26/2003

Experimenters: Jason Marshall, 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.

Five products were used at full strength, heated to 120 F on a hot plate. Fifteen preweighed coupons were coated with Oil - Mineral (8012-95-1) and allowed to dry over the weekend 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: Bio T Foam Plus was sprayed onto one of the three coupons at room temperature and allowed to sit for 5 minutes. The cleaner was then wiped clean.

Summary:

Substrates:	Stainless Steel				
Contaminants:	Oil				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
AW Chesterton	278 Super Solv	100	93.17	☑	
Bio Chem Systems	Bio T Foam Plus	100	97.41	☑	One coupon only
Invista S.a.r.l	Flexisolv DBE 3 ester	100	95.23	☑	
Eastern Color and Chemical Company	Ecobrite Cleaner AK	100	95.12	☑	
Gemtek Products	SC EZ Solv Safety Solvent	100	91.12	☑	

Conclusion: All the cleaners were effective at an efficiency of over 85%.