CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2003

DateRun: 09/25/2003

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 - Benign B-5186 (64742-52-5, 9003-29-6, 3964-69-2, 63197-48-8) 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. Effeciencies 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	95.81	☑	
Bio Chem Systems	Bio T Foam Plus	100	36.13	☐	
Invista S.a.r.l	Flexisolv DBE 3 ester	100	80.46	☐	
Eastern Color and Chemical Company	Ecobrite Cleaner AK	100	35.30	☐	
Gemtek Products	SC EZ Solv Safety Solvent	100	63.34	☐	

Conclusion: AW Chesterton 278 Super Solv was the only effective cleaner at an efficiency rate of 95.81%.