CLEANING LABORATORY EVALUATION SUMMARY

SCL #:	2003
DateRun:	09/21/2003
Experimenters:	Jason Marshall
ClientType:	Lab
ProjectNumber:	Project #1
Substrates:	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. Six products were used at full strength, heated to 120 F on a hot plate. Eighteen preweighed coupons were coated with Dauber Chemical Co Tectyl 891 Class 1 Cosmoline grease (8052-41-3, 98918-69-4, 64742-65-0, 68608-26-4) and allowed to dry for three days 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 overnight and then reweighed a final time. Efficiencies were calculated. Note: Bio T Foam Plus was sprayed onto coupons at room temperature and allowed to sit for 5 minutes. The cleaner was then rinsed off.
Results:	Only one product removed over 85% of the soil during the 5-minute immersion cleaning. A second product removed just under 70%.

Summary:

Substrates:	Steel				
Contaminants:	Greases				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
AW Chesterton	278 Super Solv	100	68.07	☐	
Bio Chem Systems	Bio T Foam Plus	100	13.86	☐	
Eastern Color and Chemical Company	Ecobrite Cleaner AK	100	2.09	☐	
EcoLink	Rip Tide	100	4.87	☐	
EcoLink	VG 151	100	85.02	☑	
Gemtek Products	SC EZ Solv Safety Solvent	100	15.32	☐	

Conclusion: Increased cleaning time or the addition of agitation would improve the cleaning for 278 Super Solv and VG 151.