CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2004

DateRun: 05/28/2004

Experimenters: Jason Marshall

ClientType: Lab

ProjectNumber: Project #1

Substrates: Steel

PartType: Coupon

Contaminants: Oil

Cleaning Methods: Vapor Degreasing

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.

Two hundred fifty milliliters of each product were used at full strength in a 4000 ml beaker and heated to its boiling point on a hot plate. Preweighed aluminum coupons were coated with the Castrol Quench G oil (64742-55-8, 64742-65-0, 8052-42-4) using a handheld swab. Coupons were weighed a second time to determine the amount of soil added to each coupon. Three coupons were cleaned in each solution for 5 minutes using vapor degreasing. After cooling to room temperature, the coupons were weighed a final time and efficiencies were calculated.

Results:

Summary:

Substrates:	Steel				
Contaminants:	Oil				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
AGA Chemical	AK 225	100	99.94	☑	
DuPont	Vertrel CCA	100	99.63	☑	
DuPont	Vertrel MCA	100	100.07	☑	
Micro Care	Heavy Duty Degreaser C	100	99.86	☑	
Micro Care	Flux Remover C	100	99.92	☑	
3M	HFE 7100	100	91.98	☑	
3M	HFE 7200	100	94.16	☑	
Enviro Tech International Inc	Ensolv	100	99.95	☑	
Poly Systems USA Inc	Solvon Kreussler IP	100	100.18	☑	
Dow Chemical Company	OS 10	100	98.93	☑	
Dow Chemical Company	OS 20	100	98.09	☑	
Dow Chemical Company	OS 30	100	81.14	☐	

Conclusion: Eleven of the twelve products removed over 85%.