CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2004

DateRun: 05/26/2004

Experimenters: Jason Marshall

ClientType: Lab

ProjectNumber: Project #1

Substrates: Sterling/Silver

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.

Each product was used at full strength in a 250 ml beaker and heated to 96 F on a hot plate. Nine preweighed silver plated copper coupons were coated with the Lanson Oil Co Vanish 6912 (6742-48-9) 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 stir-bar agitation. After cleaning parts were weighed a final time and efficiencies were calculated.

Results:

Cleaner	Initial wt	Final wt	% Removed
Vertrel MCA	0.1071	0.0074	93.09
	0.0366	0.0055	84.97
	0.0661	0.0124	81.24
Heavy Duty Degreaser C	0.0682	0.0036	94.72
	0.0364	0.0072	80.22
	0.0731	0.0064	91.24
Flux Remover C	0.0357	0.0156	56.30
	0.0504	0.0140	72.22
	0.0766	0.0098	87.21

Summary:

Substrates:	Sterling/Silver				
Contaminants:	Oil				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
DuPont	Vertrel MCA	100	86.43	☑	
Micro Care	Heavy Duty Degreaser C	100	88.73	☑	
Micro Care	Flux Remover C	100	71.91	☐	

Conclusion: Two of the three removed over 85%.