CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2008

DateRun: 09/22/2008

Experimenters: Jason Marshall

ClientType: Machine Construction Company

ProjectNumber: Project #2

Substrates: Steel

PartType: Coupon

Contaminants: Coatings

Cleaning Methods: Immersion/Soak

Analytical Methods: Gravimetric

Purpose: To evaluate top two products on supplied contaminant using heated immersion cleaning.

Experimental Procedure: The top two products were selected from the previous trial based on success on removing the first supplied soil using heated immersion cleaning. Both were used at full strength based on vendor recommendations. Beakers were heated to 130 F on a hot plate. Six preweighed steel coupons were coated with the rust preventative VCI 368 using a hand held swab. Coupons were weighed again to determine the amount of soil added. Three coupons were cleaned in each solution for 10 minutes using stir bar agitation. Coupons were rinsed for 15 seconds in tap water at 120 F and dried using compressed air at room temperature for 30 seconds. Final weights were recorded and efficiencies calculated.

Results: Both products removed over 90% of the VCI 368 contaminant using heated immersion cleaning. The table lists the amount of soil added, the amount remaining and the efficiency for each coupon cleaned.

Cleaner	Initial wt	Final wt	% Removed
Smart Solve 605			
	0.3991	0.0279	93.01
	0.2898	0.0252	91.30
	0.2886	0.0283	90.19
Bean-e-doo			
	0.2358	0.0277	88.25
	0.5005	0.0302	93.97
	0.2993	0.0253	91.55

Summary:

Substrates:	Steel
Contaminants:	Coatings

Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
United Laboratories International	Smart Solve 605	100	91.50	☑	
Franmar Chemical	Bean-e-doo (Parts Washer Solvent)	100	91.26	☑	

Conclusion: The same two products will be evaluated on the next supplied contaminant (VCI 325) using heated immersion cleaning.