CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2017

DateRun: 11/13/2017

Experimenters: Kevin Smith, Justin Rainaud

ClientType:

ProjectNumber: Project #2

Substrates: Vinyl Composite Tiles, Painted metal

PartType: Coupon

Contaminants: Carbon Deposits, Food

Cleaning Methods: Manual Wipe

Analytical Methods: Gravimetric, Visual

Purpose: To evaluate supplied product for all purpose soil removal from steel and VCT surfaces.

Experimental Procedure: Pre-weighed painted steel, painted VCT coupons were soiled with one gram of DCC 17 soil (33% vegetable shortening, 33% lard, 33% vegetable oil, 1% carbon lampblack). The coupons dried for 24 hours at room temperature (68 F) before recording the dirty weights. Three coupons of the same substrate were placed onto the Gardner Straight Line Washability unit. A Wypall X60 reinforced wipe was attached to the cleaning sled and soaked with one spray of the cleaner. The supplied cleaner was diluted with one pack to 5 gallons of room temperature tap water, and the comparative cleaner was used at the supplied dilution. Each coupon was then sprayed once with the same cleaner. The cleaner penetrated for 30 seconds before cleaning in the SLW unit for 20 cycles (~40 seconds). Clean coupons were air dried at room temperature (68 F) overnight before recording final weights.

Results: **T**able of Gravimetric Results:

Cleaner	Substrate	Initial wt. of cont. (g)	Final wt. of cont. (g)	% Cont. Removed	Average % Cont. Removed	Overall % Cont. Removed
Pak-it Heavy Duty Glass & Hard Surface Cleaner	Painted Steel	0.7752	0.2374	69.38	81.42	85.83
		1.1473	0.1343	88.29		
		1.0703	0.1436	86.58		
	Painted VCT	1.0838	0.0887	91.82	90.25	
		0.9645	0.0961	90.04		
		1.1040	0.1225	88.90		
Oasis 255 Glass Cleaner	Painted Steel	0.9954	0.1069	89.26	88.93	93.09
		1.2405	0.1051	91.53		
		1.0066	0.1410	85.99		
	Painted VCT	0.8956	0.0303	96.62	97.25	
		1.0038	0.0305	96.96		
		1.0960	0.0202	98.16		

The comparative cleaner; Oasis 255 Glass Cleaner was more effective at cleaning DCC 17 soil from painted steel and painted VCT surfaces.

Summary:

Substrates:	Vinyl Composite Tiles, Painted metal				
Contaminants:	Carbon Deposits, Food				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
Big 3 Packaging	Pak-It Glass & Hard Surface Cleaner	1pack / 5 gallon	85.83	☑	
EcoLab	Oasis 255 Glass Cleaner	100%	93.09	☑	

Conclusion: The Oasis 255 Glass Cleaner was more effective than the Glass and Hard Surface Cleaner, with respective removal rates of 85.83% and 93.09%.