CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2021

DateRun: 09/02/2021

Experimenters: Alicia McCarthy, Zoe Lawson, Nicole Kebler

ClientType:

ProjectNumber: Project #1

Substrates: Ceramics, Plastic, Stainless Steel

PartType: Coupon

Contaminants: Greases

Cleaning Methods: Manual Wipe

Analytical Methods: Gravimetric, Visual

Purpose: To test the effectiveness of The Pink Stuff on ceramic, stainless steel, and plastic.

Experimental Procedure: Eighteen pre-weighed coupons, three of each substrate per cleaner, were soiled with 0.5 grams of DCC 17 (33% lard; 33% shortening; 33% vegetable oil and 1% carbon black powder) using a hand-held swab. Dirty weights were recorded after the coupons had dried for 24 hours at room temperature (68° F). Three coupons of the same substrate were aligned into a Single Line Washing Unit (SLW) with Wypall X60 attached to the cleaning sled. The Wypall X60 reinforced wipe along with the coupons were all sprayed two times with water after a small amount of the cleaner was added to each coupon; then the coupons were allowed to soak for 30 seconds. Afterward, the SLW was activated, and the coupons were cleaned for 20 cycles following an additional 20 cycles where a new Wypall was placed on the sled and sprayed again twice with water. Cleaned coupons dried overnight at room temperature before the final weights were recorded.

Results: Both cleaners were effective for the removal of glass soil from all three substrates. The Pink Stuff was 96% effective for ceramic and 97% effective for stainless steel and plastic. Soft Scrub was 92% effective for ceramic, 93% effective for stainless steel, and 98% effective for plastic.

Cleaner	Substrate	Initial wt. of Cont.	Final wt. of Cont.	Average	Combined Average
The Pink Stuff	Ceramic	0.5019	0.0349	93.04	96.2
		0.5982	0.0100	98.33	
		0.5287	0.0150	97.17	
	Stainless Steel	0.6997	0.0580	91.71	96.8
		0.5143	0.0013	99.75	
		0.5911	0.0071	98.80	
	Plastic	0.5418	0.0247	95.44	97.0
		0.4942	0.0097	98.04	
		0.4107	0.0106	97.42	
Soft Scrub	Ceramic	0.5738	0.0156	97.28	91.9
		0.5703	0.0330	94.21	
		0.3871	0.0612	84.19	
	Stainless Steel	0.5064	0.0117	97.69	93.4
		0.5161	0.0883	82.89	
		0.5710	0.0017	99.70	
	Plastic	0.5349	0.0002	99.96	98.4
		0.5487	0.0032	99.42	
		0.5270	0.0213	95.96	

Summary:

Substrates:	Ceramics, Plastic, Stainless Steel				
Contaminants:	Greases				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
Star Drops	The Pink Stuff	100%	97.00	☑	
Dial Professional	Soft Scrub Lemon Cleaner (Bab-O)	100%	95.00	☑	

Conclusion: Both cleaners were effective for the removal of kitchen soil from all three substrates.