CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2016

DateRun: 12/11/2016

Experimenters: John Truong, James Keats

ClientType: Maintenance Shop

ProjectNumber: Project #1

Substrates: Aluminum

PartType: Coupon

Contaminants: Greases, Lubricating/Lapping Oils, Dirt

Cleaning Methods: Manual Wipe

Analytical Methods: Gravimetric

Purpose: Evaluate cleaners for bike cleaning

Experimental Procedure: Initial weights of the coupons were recorded. The coupons were then soiled with 1.6g of bike soil. Dirty weights were measured and they were placed in threes into the Manual SLW machine. The coupons and paper towel were both sprayed twice with the selected cleaner. 5 complete back and forth cycles were run and the coupons were then allowed to dry. Once dry, the clean weights were recorded. This process was repeated for each cleaner.

Results:

Cleaner	Substrate	Coupon #	Initial wt of cont.	Final wt of cont.	%Cont Removed
Simple Green	Painted Stainless Steel	2	1.7134	0.0605	96.47
		3	1.7686	0.0476	97.31
		10	1.3045	0.0671	94.86
WD-40 Bike Wash	Painted Stainless Steel	11	1.6266	0.1206	92.59
		20	1.6056	0.0980	93.90
		33	1.6566	0.0969	94.16
Goo Gone Remover Spray Gel	Painted Stainless Steel	49	1.9437	0.0644	96.69
		60	2.0849	0.0488	97.66
		121	1.9408	0.0550	97.17
Water	Painted Stainless Steel	1	2.0715	0.1378	93.35
		6	2.0560	0.1105	94.63
		7	2.1508	0.2301	89.30
Finishline Super Bike Wash	Painted Stainless Steel	9	1.9948	0.5843	70.71
		13	1.9886	0.7817	60.69
		51	1.8969	0.1223	93.55

Summary:

Substrates:	Aluminum
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Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
Environmental Inteligence	Simple Green Cleaner & Degreaser	100	96.21	☑	
WD 40 Company	WD 40 Foaming Bike Wash	100	92.42	☑	
Goo Gone	Goo Gone Original	100	93.54	☑	
Finish Line Technologies Inc	Super Bike Wash Concentrate	100	97.17	☑	
Water	Water	100	74.98	☐	

Conclusion: The four products worked well on removing the bike soil.