

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2016
 DateRun: 12/12/2016
 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				
Contaminants:	Greases, Lubricating/Lapping Oils, Dirt				
Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
Environmental Intelligence	Simple Green Cleaner & Degreaser	100	96.21	<input checked="" type="checkbox"/>	
WD 40 Company	WD 40 Foaming Bike Wash	100	92.42	<input checked="" type="checkbox"/>	
Goo Gone	Goo Gone Original	100	93.54	<input checked="" type="checkbox"/>	
Finish Line Technologies Inc	Super Bike Wash Concentrate	100	97.17	<input checked="" type="checkbox"/>	
Water	Water	100	74.98	<input type="checkbox"/>	

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