CLEANING LABORATORY EVALUATION SUMMARY

SCL #:	2016
DateRun:	12/06/2016
Experimenters:	John Truong, James Keats
ClientType:	
ProjectNumber:	Project #1
Substrates:	Aluminum, Stainless Steel, White Board
PartType:	Coupon
Contaminants:	Lubricating/Lapping Oils, Dirt
Cleaning Methods:	Manual Wipe
Analytical Methods:	Gravimetric
Purpose:	Evaluate Troy Corp cleaners
Experimental Procedure:	Initial weights of the coupons were recorded. The coupons were then soiled with 1.6g of bike soil. Dirty weights were recorded 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			
T08867	Painted Steel	Initial wt	Final wt	% Removed
		2.0178	0.1862	90.77
		2.2198	0.1214	94.53
		1.9803	0.0775	96.09
T08868	Painted Steel			
		2.0068	0.1766	91.20
		2.0873	0.1268	93.93
		2.0980	0.1260	93.99
T08869	Painted Steel			
		1.9923	0.1807	90.93
		2.0911	0.1241	94.07
		2.0101	0.1340	93.33
T08870	Painted Steel			
		2.0340	0.1745	91.42
		2.0769	0.1432	93.11
		1.8526	0.1375	92.58
T08871	Painted Steel			
		2.1567	0.0199	99.08
		2.0560	0.0251	98.78
		2.0756	0.0372	98.21
Pro-Gold Degreaser	Stainless Steel			
		2.0494	0.0710	96.54
		1.8151	0.0694	96.18
		1.9246	0.0667	96.53
Pro-GoldDegreaser	Aluminum			
		2.0494	0.0307	98.50
		2.2492	0.0461	97.95
		2.2295	0.0524	97.65
Pedro's Oranj Peelz	Stainless Steel			
		1.7578	0.1157	93.42

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		2.1425	0.0792	96.30
		2.1129	0.1044	95.06
Pedro's Oranj Peelz	Aluminum			
		2.0828	0.0750	96.40
		2.0753	0.0373	98.20
		2.0223	0.0546	97.30
Pedro's Degreaser 13	Stainless Steel			
		1.9840	0.0567	97.14
		2.1558	0.0325	98.49
		2.2221	0.0436	98.04
Pedro's Degreaser 13	Aluminum			
		2.1249	0.2882	86.44
		2.1429	0.2094	90.23
		2.1714	0.5422	75.03
Pedro's Green Fizz	Stainless Steel			
		2.1040	0.0373	98.23
		2.0307	0.0143	99.30
		2.0051	0.0115	99.43
Pedro's Green Fizz	Aluminum			
		2.0966	0.0581	97.23
		2.2203	0.0682	96.93
		2.0683	0.0425	97.95
Clean Streak	Stainless Steel			
		2.0733	0.0245	98.82
		1.9788	0.0124	99.37
		1.9819	0.0095	99.52
Clean Streak	Aluminum			
		2.1161	0.1220	94.23
		2.1665	0.0783	96.39
		2.0909	0.6192	70.39

Summary:

Substrates:	Aluminum, Stainless Steel, White Board				
Contaminants:	Lubricating/Lapping Oils, Dirt				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
Troy Corporation	Tetra T08867	100	93.80	☑	
Troy Corporation	Tetra T08868	100	93.04	☑	
Troy Corporation	Tetra T08869	100	92.78	☑	
Troy Corporation	Tetra T08870	100	92.37	☑	
Troy Corporation	Tetra T08871	100	98.69	☑	
Abc Compounding	Pro-gold Degreaser	100	97.22	☑	
Pedro's	Oranj Peelz	100	96.11	☑	
Pedro's	Degreaser 13	100	90.89	☑	
Pedro's	Green Fizz	100	98.18	☑	
White Lightning	Clean Streak (Aerosol)	100	93.12	☑	

Conclusion: Stainless steel was easier cleaned than the aluminum.