CLEANING LABORATORY EVALUATION SUMMARY

SCL #:	2016
DateRun:	12/06/2016
Experimenters:	John Truong, James Keats
ClientType:	Maintenance Shop
ProjectNumber:	Project #1
Substrates:	Aluminum, Stainless Steel, Painted metal
PartType:	Coupon
Contaminants:	Greases, Lubricating/Lapping Oils, Dirt
Cleaning Methods:	Manual Wipe
Analytical Methods:	Gravimetric
Purpose:	Evaluate Troy Corp 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	Initial wt of cont.	Final wt of cont.	%Cont Removed	Average %Cont. Removed
T08867	Painted Steel	2.02	0.19	90.77	93.80
		2.22	0.12	94.53	
		1.98	0.08	96.09	
T08868		2.01	0.18	91.20	93.04
		2.09	0.13	93.93	
		2.10	0.13	93.99	
T08869		1.99	0.18	90.93	92.78
		2.09	0.12	94.07	
		2.01	0.13	93.33	
T08870		2.03	0.17	91.42	92.37
		2.08	0.14	93.11	
		1.85	0.14	92.58	
T08871		2.05	0.07	96.54	96.42
		1.82	0.07	96.18	
		1.92	0.07	96.53	
Pro-Gold Degreaser	Stainless Steel	2.16	0.02	99.08	98.69
		2.06	0.03	98.78	
		2.08	0.04	98.21	
Pedro's Oranj Peelz		1.76	0.12	93.42	94.93
		2.14	0.08	96.30	
		2.11	0.10	95.06	
Pedro's Degreaser 13		1.98	0.06	97.14	97.89
		2.16	0.03	98.49	
		2.22	0.04	98.04	
Pedro's Green Fizz		2.10	0.04	98.23	98.98
		2.03	0.01	99.30	
		2.01	0.01	99.43	
White Lightning Clean Streak		2.07	0.02	98.82	99.24
		1.98	0.01	99.37	
		1.98	0.01	99.52	
Pro-Gold Degreaser	Aluminum	2.05	0.03	98.50	98.03
		2.25	0.05	97.95	
		2.23	0.05	97.65	
		2.08	0.07	96.40	97.30

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Pedro's Oranj Peelz		2.08	0.04	98.20	
		2.02	0.05	97.30	
Pedro's Degreaser 13		2.12	0.29	86.44	83.90
		2.14	0.21	90.23	
		2.17	0.54	75.03	
Pedro's Green Fizz		2.10	0.06	97.23	97.37
		2.22	0.07	96.93	
		2.07	0.04	97.95	
White Lightning Clean Streak		2.12	0.12	94.23	87.00
		2.17	0.08	96.39	
		2.09	0.62	70.39	

Summary:

Substrates:	Aluminum, Stainless Steel, Painted metal				
Contaminants:	Greases, 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	96.42	☑	
Abc Compounding	Pro-gold Degreaser	100	95.86	☑	
Pedro's	Oranj Peelz	100	96.12	☑	
Pedro's	Degreaser 13	100	90.90	☑	
Pedro's	Green Fizz	100	98.18	☑	
White Lightning	Clean Streak (Aerosol)	100	93.12	☑	

Conclusion: Two products removed under 90% of the soil from the two surfaces.