

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2016
 DateRun: 12/07/2016
 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 | |

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|------------------------------|------|------|-------|-------|
| Pedro's Oranj Peelz | 2.08 | 0.07 | 96.40 | 97.30 |
| | 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 | <input checked="" type="checkbox"/> | |
| Troy Corporation | Tetra T08868 | 100 | 93.04 | <input checked="" type="checkbox"/> | |
| Troy Corporation | Tetra T08869 | 100 | 92.78 | <input checked="" type="checkbox"/> | |
| Troy Corporation | Tetra T08870 | 100 | 92.37 | <input checked="" type="checkbox"/> | |
| Troy Corporation | Tetra T08871 | 100 | 96.42 | <input checked="" type="checkbox"/> | |
| Abc Compounding | Pro-gold Degreaser | 100 | 95.86 | <input checked="" type="checkbox"/> | |
| Pedro's | Oranj Peelz | 100 | 96.12 | <input checked="" type="checkbox"/> | |
| Pedro's | Degreaser 13 | 100 | 90.90 | <input checked="" type="checkbox"/> | |
| Pedro's | Green Fizz | 100 | 98.18 | <input checked="" type="checkbox"/> | |
| White Lightning | Clean Streak (Aerosol) | 100 | 93.12 | <input checked="" type="checkbox"/> | |

Conclusion:

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