CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2016

DateRun: 10/16/2016

Experimenters: Francisco Abreau

ClientType: Maintenance Shop

ProjectNumber: Project #1

Substrates: Nickel, Steel

PartType: Part

Contaminants: Greases, Lubricating/Lapping Oils, Dirt

Cleaning Methods: Manual Wipe

Analytical Methods: Visual

Purpose: To evaluate the supplied products for Bicycle Gear surface cleaning effectiveness.

Experimental Procedure: A pre-soiled bike pedal gear was obtained by the campus bike as an initial substrate for the five Troy Corp bike cleaners. An initial visual analysis of the bicycle gear was acquired in order to use it as a standard and also to determine how much of the gear was cleaned after wiping with the cleaners. The bicycle gear was sprayed twice and then wiped clean with a fabric cloth for 5 minutes for each of the cleaners provided. After the wiping was completed, the bike gear was then subjected to a visual analysis in order to assess for cleaning effectiveness for each cleaner.

Results: The results from the testing are reported in the table below:

Cleaner #	Time	Observations
Tetra T08867	5 mins	Only small amount of bike soil removed
Tetra T08868	5 mins	Performed just the same as cleaner one (Tetra TO 8867)
Tetra T08869	5 mins	Performed better, bike gear looks glossier
Tetra T08870	5 mins	Looks cleaner than Tetra TO 8869 (Previous cleaner)
Tetra T08871	5 mins	Performed the same as Tetra TO 8867 (First cleaner)

It was found that the worst performing cleaner on the bicycle gear surface was the Tetra TO 8867. Visually, it had less removal of the bike soil when compared to the other cleaners. The Tetra TO 8868 performed just the same as the first cleaner, with little to no removal of the bike gear soil. Next, the Tetra TO 8869 performed better than the previous two cleaners. Visually, it was seen to clean better and also provided gloss to the bike gear. The cleaner that was seen to outperform the others in cleaning effectiveness was the Tetra 8870. Visually, it was seen to remove the most amount of bike gear soil compared to the other cleaners used. The Tetra TO 8871 cleaner was observed to perform to the same nature as cleaner one, Tetra TO 8867; it barely removed soil from the bike gear.

Summary:

Substrates:	Nickel, Steel				
Contaminants:	Greases, Lubricating/Lapping Oils, Dirt				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
Troy Corporation	Tetra T08867	100	0.00	☐	
Troy Corporation	Tetra T08868	100	0.00	☐	
Troy Corporation	Tetra T08869	100	0.00	☐	
Troy Corporation	Tetra T08870	100	0.00	☑	
Troy Corporation	Tetra T08871	100	0.00	☐	

Conclusion: The cleaner that was seen to outperform the others in cleaning effectiveness was the Tetra 8870. Visually, it was seen to remove the most amount of bike gear soil compared to the other cleaners used.