CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2017

DateRun: 08/15/2017

Experimenters: Alicia McCarthy, Hayley Byra

ClientType: General

ProjectNumber: Project #1

Substrates: Aluminum

PartType: Coupon

Contaminants: Lubricating/Lapping Oils, Waxes

Cleaning Methods: Immersion/Soak

Analytical Methods: Gravimetric

Purpose: To evaluate the effectiveness of Fluosolv NC-786 at removing wax and lubricants from aluminum alloys.

Experimental Procedure: Preweighed aluminum coupons were tested for each aqueous cleaner. Five soils were tested: Lenox Lube Tube Wax (CAS:8002-74-2; 57-11-4; 5989-27-5) Blasocut 2000 Universal Lubricant (CAS: 64742-52-5; 61790-44-1; 68608-26-4; 63449-39-8; 107-41-5; 770-35-4); Accu-Lube LB 6000 Lubricant (CAS68583-51-7); Oak 7a lubricant (CAS: 64742-53- 6; 68909-65-9); and Rustlick EDM30 lubricant (CAS: 64742-47-8; 8042-47-5). Coupons were soiled using a swab to cover the bottom third of the substrate and dirty weights were recorded. Coupons were immersed, three at a time, in a heated beaker (80 F) filled with 200ml of Fluosolv NC-786 for five minutes. Dirty weights were recorded after testing.

Results:

Soil	Initial wt.	Final wt.	% Cont. Removed	Ave.% Removed
Wax				
	0.0712	-0.0015	102.11	100.57
	0.0958	0.0024	97.49	
	0.0999	-0.0021	102.10	
Blasocut				
	0.0504	0.0005	99.01	99.68
	0.0626	-0.0001	100.15	
	0.0776	0.0001	99.87	
Accu-Lube				
	0.0809	-0.0001	100.12	99.97
	0.1504	-0.0003	100.20	
	0.1426	0.0006	99.58	
Oak 7a				
	0.1241	-0.0009	100.71	101.07
	0.0800	-0.0007	100.88	
	0.0996	-0.0016	101.61	
EDM 30				
	0.0583	-0.0009	101.54	101.27
	0.0476	-0.0005	101.05	
	0.0415	-0.0005	101.20	

Summary:

Substrates:	Aluminum				
Contaminants:	Lubricating/Lapping Oils, Waxes				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
NuGeneration Technologies, LLC	FluoSolv NC 786	100	0.00	☑	

Conclusion: Fluosolv NC-876 was effective in cleaning all five soils using immersion at 80 F for five minutes.