

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2004

DateRun: 07/06/2004

Experimenters: Heidi Wilcox

ClientType: Lab

ProjectNumber: Project #1

Substrates: Aluminum

PartType: Coupon

Contaminants: Oil

Cleaning Methods: Immersion/Soak

Analytical Methods: Gravimetric

Purpose: Laboratory evaluations of alternative cleaning products

Experimental Procedure: Basic cleaning performance testing was conducted using ASTM G122 as the bases for cleaning.
Cleaning: 5 min. immersion cleaning at 96 F with stir-bar agitation.
NO Rinsing
Drying: 30 sec. Air blow off using hose
Contaminant:
Oil Nisseki SAS 40 CAS# 2776-01-8, 612-00-00, 103-29-7, 101-81-5
Substrate 2 " x 2" aluminum

Results:

Summary:

Substrates:		Aluminum			
Contaminants:		Oil			
Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
Petroferm Inc	Lenium CP (no longer available)	100	100.51	<input checked="" type="checkbox"/>	
Petroferm Inc	Lenium ES	100	102.50	<input checked="" type="checkbox"/>	Over 102 usaulay not effective but thi is marginal and no visible damage with 5 minute trial
Invista S.a.r.l	Flexisolv DBE 6 ester	100	102.70	<input checked="" type="checkbox"/>	Over 102 usaulay not effective but thi is marginal and no visible damage with 5 minute trial

Conclusion: They all were effective, again ES & GS were slightly above 102% (0.5 & 0.7) but again we believe this is due to removing films or buildup form the coupons effectively since there was no visible signs of deterioration of the coupon.