CLEANING LABORATORY EVALUATION SUMMARY

SCL #:	2007
DateRun:	01/29/2007
Experimenters:	Jason Marshall
ClientType:	Cleaner Manufacturer
ProjectNumber:	Project #1
Substrates:	Aluminum, Ceramics
PartType:	Coupon
Contaminants:	Greases, Oil
Cleaning Methods:	Manual Wipe
Analytical Methods:	Gravimetric
Purpose:	To evaluate supplied cleaner for oil-grease cleaning using manual wiping.
Experimental Procedure:	The supplied cleaning product was used at the recommended concentration (2%). Three preweighed aluminum and ceramic coupons were coated with an oil-grease mix collected from a dirty engine using a handheld swab and allowed to dry for 24 hours at room temperature. The contaminated coupons were weighed again to determine the amount of soil added. Three coupons were placed into a Gardner Straight Line Washability unit. A Wypall X60 reinforced wipe was attached to the cleaning sled and soaked with 5-7 sprays of cleaning solutions. Each coupon was sprayed 7-10 times with the same cleaning solution. The solution was allowed to penetrate for 30 seconds followed by cleaning in the SLW unit for 20 cycles (~30 seconds). At the end of the cleaning, coupons were wiped once with a dry paper towel. Final weights were recorded, and efficiencies recorded.
Results:	The #120 Peroxide Multisurface Cleaner was effective in removing the oil-grease mix from the two surface types. The table lists the amount of soil added, the amount remaining and the efficiency for each coupon cleaned.

Cleaner	Initial wt	Final wt	% Removed
Aluminum	0.0387	0.0069	82.17
	0.0239	0.0045	81.17
	0.0289	0.0044	84.78
Ceramic	0.0206	0.0008	96.12
	0.0135	0.0013	90.37
	0.0109	0.0017	84.40

Summary:

Substrates:	Aluminum, Ceramics				
Contaminants:	Greases, Oil				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
Next-Gen Supply Group	PC 120 Peroxide Mulitsurface Cleaner	2	86.50	☑	

Conclusion: The #120 Peroxide cleaner removed over 85% of the oil-grease mix using manual wiping for cleaning.