CLEANING LABORATORY EVALUATION SUMMARY

SCL #:	2004
DateRun:	07/22/2004
Experimenters:	Jason Marshall, Heidi Wilcox, Andy Harris
ClientType:	Metal Finishing
ProjectNumber:	Project #2
Substrates:	Aluminum
PartType:	Coupon
Contaminants:	Coatings
Cleaning Methods:	Immersion/Soak
Analytical Methods:	Gravimetric
Purpose:	To evaluate the successful product on the last contaminant
Experimental Procedure:	The supplied product was used as received in 400 ml beakers and heated to 120 F on a hot plate. Three preweighed aluminum coupons were coated with client supplied coating, Castrol Industries Rustilo 4163 (64742-46-7, 8002-74-2, 34590-94-8), using a hand held swab and then weighed a second time to determine the amount of soil added. Three coupons were cleaned in each solution for 5 minutes using stir-bar agitation. Coupons were rinsed in tap water for 15 seconds at 120 F, followed by air blow off at room temperature. Once dry, coupons were weighed a final time and efficiencies for each cleaner were calculated.
Results:	The Alkalume removed 97% of the contaminant from the coupons. The table below lists the amount of soil added, the amount remaining and the efficiency for each coupon cleaned.

Cleaner	Initial wt	Final wt	% Removed
Alkalume LN	0.3965	0.0111	97.20
	0.3380	0.0076	97.75
	0.3534	0.0126	96.43

Summary:

Substrates:	Aluminum				
Contaminants:	Coatings				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
McGean Rohco Inc	Alkalume LN	100	97.13	☑	

Conclusion: This product and the five from the first round of testing will be used on supplied parts using ultrasonic energy.