

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2003

DateRun: 10/24/2003

Experimenters: Dave Hout

ClientType: Lab

ProjectNumber: Project #1

Substrates: Stainless Steel

PartType: Coupon

Contaminants: Cutting/Tapping Fluids

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. One product was used at full strength at room temperature and seven others were heated to 130 F on a hot plate. Twenty four preweighed coupons were coated with Remi Corp Re-Lion and allowed to dry for a half an hour and reweighed. Three coupons were cleaned in each solution for 5 minutes using stir-bar-agitation, rinsed in a tap water bath for 15 seconds at 120 F and dried using air blow off for 30 seconds at 68 F. Coupons were allowed to dry for a half an hour and then reweighed a final time. Efficiencies were calculated.

Results:

Summary:

Substrates:		Stainless Steel				
Contaminants:		Cutting/Tapping Fluids				
Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:	
AW Chesterton	217 Pressure wash	5	62.80	<input type="checkbox"/>		
Alconox Inc	Liquinox	5	101.90	<input checked="" type="checkbox"/>		
Bio Chem Systems	Bio T Parts Washer NR	5	101.05	<input checked="" type="checkbox"/>		
Dow Chemical Company	PnB Glycol Ether	5	103.16	<input type="checkbox"/>		
Hubbard Hall Inc	Aquasonic 201	5	82.55	<input type="checkbox"/>		
Magnaflux	Daraclean 235	5	69.66	<input type="checkbox"/>		
Man Gill Chemical Company	Gillite 0650 Cl	5	101.42	<input checked="" type="checkbox"/>		
Finger Lakes Chemical	Safer Stuff	100	104.00	<input type="checkbox"/>		

Conclusion: Three out of eight products were effective at removing the contaminant at an efficiency rate of over 85% and under 102%.