

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2003
DateRun: 12/29/2003
Experimenters: Dave Hout
ClientType: Lab
ProjectNumber: Project #1
Substrates: Stainless Steel
PartType: Coupon
Contaminants: Greases
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. Four products were heated to 130 F on a hot plate and two products were used at full strength. Eighteen preweighed coupons were coated with Grease - CRC Industries Multipurpose Super White Grease (647-41-96-4, 7620-77-1, 1314-13-2, 57885-77-3, 13463-67-7) 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. Effeciencies were calculated.

Results:

Summary:

Substrates:		Stainless Steel				
Contaminants:		Greases				
Company Name:		Product Name:	Conc.:	Efficiency:	Effective:	Observations:
Nensco		DT 600 Press Wash	100	86.00	<input checked="" type="checkbox"/>	
Nensco		USA Wash	100	84.32	<input type="checkbox"/>	
Quaker Chemical		Formula 625 XL	5	98.67	<input checked="" type="checkbox"/>	
SOQ Environmental Technology		Ecomate FN	5	97.44	<input checked="" type="checkbox"/>	
Valtech Corporation		Valtron SP 2500	5	98.11	<input checked="" type="checkbox"/>	
Watson Technical Associates		Watson Formula 9000	5	97.41	<input checked="" type="checkbox"/>	

Conclusion: Seven out of the eight products were effective at removing the contaminant at an efficiency rate of over 86%