

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2003
DateRun: 12/23/2003
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 Greese - Daubert Chemical Co Tectyl 891 Class I Cosmoline Grease (8052-41-3, 68918-64-4, 64742-65-0, 68608-26-4) 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	24.45	<input type="checkbox"/>		
Nensco	USA Wash	100	101.61	<input checked="" type="checkbox"/>		
Quaker Chemical	Formula 625 XL	5	16.65	<input type="checkbox"/>		
SOQ Environmental Technology	Ecomate FN	5	12.45	<input type="checkbox"/>		
Valtech Corporation	Valtron SP 2500	5	7.65	<input type="checkbox"/>		
Watson Technical Associates	Watson Formula 9000	5	21.57	<input type="checkbox"/>		

Conclusion: Only one product was effective at an efficiency rate of over 100%