

CLEANING LABORATORY EVALUATION SUMMARY

SCL #:	2008																																				
DateRun:	10/16/2008																																				
Experimenters:	Daniel Pina																																				
ClientType:	Lab																																				
ProjectNumber:	Project #1																																				
Substrates:	Stainless Steel																																				
PartType:	Coupon																																				
Contaminants:	Greases																																				
Cleaning Methods:	Immersion/Soak																																				
Analytical Methods:	Gravimetric																																				
Purpose:	To test nontoxic industrial cleaning solutions for oil removal.																																				
Experimental Procedure:	Basic cleaning performance testing was conducted using ASTM G122 as the bases for cleaning. products were based on the compatibility of substrate and removal of foreign substance. Used 5% concentration and heated the samples at 135F. The coupons were immersed in a product for 5 minutes, rinsed for 30 seconds in tap water at 120F and dried in 30 seconds using compressed air is room temperature. Coupons were coated with used grease. Using a handheld swab and allowed to dry for 144 hours at room temperature. The contaminated coupons were weighed again to determine the amount of soil added. After cleaning process, the final weights were recorded, efficiencies were calculated and recorded.																																				
Results:	<table border="1"> <thead> <tr> <th>BiogeneCleaner</th> <th>Initial wt</th> <th>Final wt</th> <th>% Removed</th> </tr> </thead> <tbody> <tr> <td>Biogenesis enterprise inc. BG Clean 648.00</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>3.5943</td> <td>3.5941</td> <td>0.01</td> </tr> <tr> <td></td> <td>1.0285</td> <td>1.0047</td> <td>2.31</td> </tr> <tr> <td></td> <td>1.3704</td> <td>1.4696</td> <td>-7.24</td> </tr> <tr> <td>A1 Hydro Park Hill Chemical</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>3.5030</td> <td>3.4841</td> <td>0.54</td> </tr> <tr> <td></td> <td>2.5121</td> <td>2.5218</td> <td>-0.39</td> </tr> <tr> <td></td> <td>1.4214</td> <td>1.4298</td> <td>-0.59</td> </tr> </tbody> </table>	BiogeneCleaner	Initial wt	Final wt	% Removed	Biogenesis enterprise inc. BG Clean 648.00					3.5943	3.5941	0.01		1.0285	1.0047	2.31		1.3704	1.4696	-7.24	A1 Hydro Park Hill Chemical					3.5030	3.4841	0.54		2.5121	2.5218	-0.39		1.4214	1.4298	-0.59
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Conclusion:	None of the products tested passed our pass rate of 85 percent.																																				