

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2004

DateRun: 03/23/2004

Experimenters: Dave Hout

ClientType: Lab

ProjectNumber: Project #1

Substrates: Stainless Steel

PartType: Coupon

Contaminants: Oil

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 and seven products were heated to 130 F on a hot plate. Twenty-four preweighed coupons were coated with Oil-Benecyn B-5186 (64742-5, 9003-29-6, 3964-69-2, 63197-48-8) 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: | Oil | | | | |
| Company Name: | Product Name: | Conc.: | Efficiency: | Effective: | Observations: |
| AW Chesterton | 217 Pressure wash | 5 | 23.38 | <input type="checkbox"/> | |
| Buckeye International | XL 100 Cleaner & Degreaser | 5 | 90.67 | <input checked="" type="checkbox"/> | |
| Calgon Corporation | Geo Guard 3015 | 5 | 20.22 | <input type="checkbox"/> | |
| Dow Chemical Company | XUS 40571 Development Solvent | 100 | 99.15 | <input checked="" type="checkbox"/> | |
| Jet Lube Inc | Jet Lube 5000 | 5 | 59.36 | <input type="checkbox"/> | |
| Hubbard Hall Inc | Ram Charger | 5 | 9.66 | <input type="checkbox"/> | |
| Man Gill Chemical Company | Gillite 1156 | 5 | 17.46 | <input type="checkbox"/> | |
| Nensco | DT 600 Press Wash | 5 | 98.51 | <input checked="" type="checkbox"/> | |

Conclusion: Three out of the eight products were effective at removing the contaminant at an efficiency rate >90%