# CLEANING LABORATORY EVALUATION SUMMARY

| | |
|---|---|
| SCL #: | 1995 |
| DateRun: | 05/11/1995 |
| Experimenters: | Donald Garlotta, Jay Jankauskas |
| ClientType: | Brass Instrument Manufacturer |
| ProjectNumber: | Project #1 |
| Substrates: | Brass |
| PartType: | Coupon |
| Contaminants: | Cutting/Tapping Fluids, Greases, Lubricating/Lapping Oils, Oil |
| Cleaning Methods: | Ultrasonics |
| Analytical Methods: | Gravimetric |
| Purpose: | Cleaning trial with coupons |
| Experimental Procedure: | Coupons were cleaned and dried with a heat gun to get the clean weight. A total of nine coupons were contaminated with contaminants #1,#2 and #4. #3 was ommitted because of lack of coupons and this appears to be the easiest contaminant to remove. The coupons were then weighed after contamination. Cleaning was done in an aggitated stirbar beaker at 140 degrees for 5 minutes. The parts were then rinsed in tap water at 140 degrees for 5 minutes. Drying was done under the air knives for 2 minutes and then placed in an oven set at 216 degrees for 90 minutes. Lapping Compound was cleaned at 138 F, very little removal from aggitation alone. |
| | 260 brass coupons contaminated with various oils and greases and then cleaned for Musical Instrument Refinisher <br> CONTAMINANTS:Clover Grease Lapping Oil, Valvoline wheel bearing grease, 90 Wt Geat Oil, Selmer Tuning Slide and Cork Grease. |
| Results: | After brushing for 1 minute, most of contaminant was removed by there was some remaining. The Sky Cleaner did a very poor job in removing both the Valvoline grease and the Selmer grease. |

Summary:

| Substrates: | Brass | | | | | |
|---|---|---|---|---|---|---|
| **Contaminants:** | Cutting/Tapping Fluids, Greases, Lubricating/Lapping Oils, Oil | | | | | |
| **Company Name:** | **Product Name:** | **Conc.:** | **Efficiency:** | **Effective:** | **Observations:** |
| Sky Products Company Inc | Cleaner #10 | 10 | | ☐ | |

Conclusion: The SkyProducts Cleaner #10 was very ineffective against all three contaminants. The weights of the coupons after cleaning were not determined because it was obvious that the cleaner was ineffective. Sky Products will not be tested for Musical Instrument Refinisher any further.