# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2008

DateRun: 06/18/2008

Experimenters: Jason Marshall, Shweta Bansal

ClientType: Tool Manufacturer

ProjectNumber: Project #1

Substrates: Steel

PartType: Coupon

Contaminants: Lubricating/Lapping Oils

Cleaning Methods: Manual Wipe

Analytical Methods: Visual

Purpose: To evaluate non-aqueous products for the removal of the third supplied contaminant

Experimental Procedure: Previously soiled steel coupons coated with the ChemSearch Aerolex Plus moly dry film lubricant were wiped with a WypAll X60 reinforced paper towel with a full-strength cleaning solution. Visual observations were made to determine if the product was effective at removing the lubricant and then ranked for ease of cleaning. Six semi-aqueous products were selected for testing based on past testing results.

Results: Of the six products evaluated, four of them worked well. The other two removed some of the lubricant but were noticeably slower than the other four. The BioGold #3 was the most effective cleaner, followed by Smart Solve 605 and DS 144 S.

Summary:

| **Substrates:** | Steel | | | | |
|---|---|---|---|---|---|
| **Contaminants:** | Lubricating/Lapping Oils | | | | |
| **Company Name:** | **Product Name:** | **Conc.:** | **Efficiency:** | **Effective:** | **Observations:** |
| United Laboratories International | Smart Solve 605 | 100 | 0.00 | ☑ | Rank 2 |
| Spartan Chemical Company | Graffiti Remover SAC | 100 | 0.00 | ☑ | Rank 4 |
| Vertec BioSolvents | VertecBio Gold 3 | 100 | 0.00 | ☑ | Rank 1 |
| Spartan Chemical Company | Soy Strong | 100 | 0.00 | ☐ | Rank 6 |
| Franmar Chemical | Bean-e-doo (Parts Washer Solvent) | 100 | 0.00 | ☐ | Rank 5 |
| Dysol | DS 144S Wipe Solvent | 100 | 0.00 | ☑ | Rank 3 |

Conclusion: The top three products were BioGold 3, Smart Solve 605 and DS 144s. Additional evaluation of the solvents may be conducted on the other three soils if necessary.