

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 1996

DateRun: 03/01/1996

Experimenters: Jay Jankauskas

ClientType: Precision Instrument Manufacturer

ProjectNumber: Project #1

Substrates: Stainless Steel

PartType: Part

Contaminants: Oil

Cleaning Methods: Low Pressure Spray

Analytical Methods: FTIR, OSEE

Purpose: To evaluate part cleanliness

Experimental Procedure: The purpose of this trial is to evaluate part cleanliness for Precision Instrument Manufacturer' old and new cleaning systems. All parts were analyzed with the lab's Magna IR 550 and the Photo Acoustics SQM100.

Results: The FTIR analysis showed no difference in the cleanliness levels of all three cleaning processes.

Summary:

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|----------------------|----------------------|-----------------|--------------------|--------------------------|----------------------|
| Substrates: | | Stainless Steel | | | |
| Contaminants: | | Oil | | | |
| Company Name: | Product Name: | Conc.: | Efficiency: | Effective: | Observations: |
| Oakite Products | Oakite 77 | | | <input type="checkbox"/> | |
| New Pig Corporation | New Pig Degreaser | | | <input type="checkbox"/> | |

Conclusion: The OSEE results showed that the cleaning processes using the Oakite and the Pig chemistries produced slightly cleaner parts. The fact that a difference was noticed on the OSEE and not on the FTIR suggest that all processes are just as effective in removing organic contamination, while the Pig and the Oakite process are more effective in removing inorganic contamination.