CLEANING LABORATORY EVALUATION SUMMARY

SCL #:	2008
DateRun:	04/16/2008
Experimenters:	Jason Marshall, Shweta Bansal
ClientType:	Machining Company
ProjectNumber:	Project #1
Substrates:	Aluminum
PartType:	Coupon
Contaminants:	Inks
Cleaning Methods:	Manual Wipe
Analytical Methods:	Visual
Purpose:	To evaluate new product with low voc and no HAPs on all six inks.
Experimental Procedure:	One coupon was coated with each of the six supplied inks. These included Dykem Stop Off, Markal Valve Action Paint marker, Nu-Mark marker, Sharpie permanent marker, Sakura Coatings Product Company Solid Marker and the Avery Marks-A-Lot permanent marker (black). Once dry, coupons were cleaned using a handheld swab that was immersed into the cleaning product. Cleaning lasted for up to 1 minute. Following the cleaning, the coupons was wiped dry for 5 seconds. Observations were made and recorded.

Results:

Contaminant	Observation
Dykem	Required under 30 seconds to clean
Markal	Worked well
Nu-Mark	Worked well
Sharpie	Worked well - slight blue residue left
Sakura	Worked well under 1 minute
Avery	Worked well

Summary:

Substrates:	Aluminum				
Contaminants:	Inks				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
Vertec BioSolvents	VertecBio Gold 3	100	0.00	☑	

Conclusion: The Vertec Bio Gold #3 worked on all six inks.