CLEANING LABORATORY EVALUATION SUMMARY

SCL #:	2008
DateRun:	08/19/2008
Experimenters:	Jason Marshall
ClientType:	Machining Company
ProjectNumber:	Project #1
Substrates:	Aluminum
PartType:	Coupon
Contaminants:	Inks
Cleaning Methods:	Manual Wipe
Analytical Methods:	Visual
Purpose:	To evaluate reformulated product on six supplied inks.
Experimental Procedure:	Coupons were 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 2 minutes (if necessary). Following the cleaning, the coupons was wiped once to dry surface. Observations were made and recorded. Product was used at full strength.

Results:

Vertec Bio Gold 35	
Inks	Results
Dykem	Effective in under 30 seconds
Markal	Effective in under 30 seconds
Nu-Mark	Effective in under 30 seconds
Sharpie	Effective in under 30 seconds - little to no blue residue
Sakura	Effective in under 30 seconds
Avery	Effective in under 30 seconds

Summary:

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

Conclusion: The formulation was found to be effective on all six of the supplied inks. The Sharpie ink removal was better than the previous formulation.