CLEANING LABORATORY EVALUATION SUMMARY

SCL #:	2008
DateRun:	07/08/2008
Experimenters:	Jason Marshall, Heidi Wilcox, Shweta Bansal
ClientType:	Tool Manufacturer
ProjectNumber:	Project #1
Substrates:	Steel
PartType:	Part
Contaminants:	Cutting/Tapping Fluids, Metal fines
Cleaning Methods:	Ultrasonics
Analytical Methods:	Visual
Purpose:	To evaluate top three products under conditions closely matching current cleaning practice.
Experimental Procedure:	The top two lab tested products were diluted to 3% using DI water in 300 ml glass beakers. The beakers were immersed in a Branson 40 kHz ultrasonic tank and heated to 130 F. The products were degassed for five minutes. A second set of parts were cleaned for 10 minutes. A set of three soiled steel parts coated with steel grit and three coated with cutting fluids were immersed into the ultrasonic tank and cleaned for 5 minutes. Following cleaning, coupons were observed for cleanliness.
Results:	For both sets of parts and both cleaning times the Polyspray Jet 790xs resulted in cleaner parts. However, at 10 minutes of cleaning both cleaners were nearly the same.

Summary:

Substrates:	Steel				
Contaminants:	Cutting/Tapping Fluids, Metal fines				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
Magnaflux	Daraclean 282 GF	3	0.00	☑	
US Polychem Corporation	Polyspray Jet 790 XS	3	0.00	☑	

Conclusion: Both products appear to work well at the lower concentration.