CLEANING LABORATORY EVALUATION SUMMARY

SCL #:	2004
DateRun:	01/21/2004
Experimenters:	Jason Marshall
ClientType:	Tool Manufacturer
ProjectNumber:	Project #1
Substrates:	Steel
PartType:	Part
Contaminants:	Oil
Cleaning Methods:	Ultrasonics
Analytical Methods:	Visual
Purpose:	To evaluate ultrasonic energy for cleaning the supplied parts.
Experimental Procedure:	One product was used at 10%, diluted with DI water and heated to 120 F. The solution was poured into a Branson 200 ultrasonic cleaning system and de-gassed for five minutes. One part was immersed into the solution and cleaned for 10 minutes with 40 kHz ultrasonic energy. The part was dried using air blow off at room temperature for 30 seconds.
Results:	Ultrasonics was very effective in cleaning the punch and arbor parts.

Summary:

Substrates:	Steel				
Contaminants:	Oil				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
Gemtek Products	SC Aircraft & Metal Cleaner Super Concentrate	10	0.00	☑	

Conclusion: Ultrasonic energy would be an effective method for removing the quench oil and gray film on the punch part and the quench oil from the arbor part.