CLEANING LABORATORY EVALUATION SUMMARY

SCL #:	2023
DateRun:	11/18/2023
Experimenters:	Alexander Symko, Amelia Wagner
ClientType:	Lab
ProjectNumber:	Project #6
Substrates:	Brass
PartType:	Coupon
Contaminants:	Lubricating/Lapping Oils, Oil
Cleaning Methods:	Vacuum Cycle Nucleation
Analytical Methods:	Gravimetric
Purpose:	To determine the efficacy of an aqueous cleaner utilizing VCN equipment.
Experimental Procedure:	Three pre weighed brass tubes were used as coupons. The brass tubes were soiled by swabbing the insides with Hycut Et 46 oil. The dirty weights of the tubes were then recorded. The tubes were then subjected to a one-minute heated cycle at 140 degrees F in the VCN using the cleaner Aquanox A4625 at a 1% concentration. The tubes were then removed and left to air dry overnight. The next day the clean weights of the tubes were recorded.

Results:

Cleaner	soil	Initial wt of cont.	Final wt of cont.	%Cont Removed	% AVG
Aquanox A4625 1%	Hycut Et 46	1.7422	0.0004	99.98	99.94
		0.8591	0.0005	99.94	
		1.1061	0.0010	99.91	

Summary:

Substrates:	Brass				
Contaminants:	Lubricating/Lapping Oils, Oil				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
Kyzen Corporation	Aquanox A4625	1	99.94	☑	

Conclusion: Aquanox A4625 1% concentration is an effective cleaner utilizing VCN methods to remove oil from complex brass part.