CLEANING LABORATORY EVALUATION SUMMARY

SCL #:	2020
DateRun:	10/06/2020
Experimenters:	Justin Kiander
ClientType:	Aircraft Parts Manufacturer
ProjectNumber:	Project #1
Substrates:	Glass/Quartz
PartType:	Coupon
Contaminants:	Resins/Rosins
Cleaning Methods:	Immersion/Soak
Analytical Methods:	Gravimetric, Visual
Purpose:	The purpose of this experiment was to repeat 30 minute heated immersion with a stir bar using Mirachem 500 as requested by the company.
Experimental Procedure:	A solution of Mirachem 500 was prepared to a concentration of 25% and heated to 140°F. Two glass coupons were obtained and weighed. One coupon was then soiled with Rosin #2 while the other was soiled with protect-o-coat and dirty weights were recorded. Once the cleaning solution reached the proper temperature, the coupons were submerged into the beaker along with a stir bar for agitation for 30 minutes. Once 30 minutes had passed, coupons air dried for 24 hours, and a clean weight was then recorded. Effectiveness of the cleaner was then determined.

Results:

Cleaner	Soil	Initial wt of cont	Final wt of Cont	%Cont Removed
Mirachem 500	Rosin #2	0.1247	0.1025	17.80
	Protect-o-coat	0.0029	0.0007	75.86

Summary:

Substrates:	Glass/Quartz				
Contaminants:	Resins/Rosins				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
Mirachem Corporation	Mirachem 500	25%	17.80	☐	For Rosin #2
Mirachem Corporation	Mirachem 500	25%	75.86	☐	For Protect-o-coat

Conclusion: Mirachem 500 removed 17.80% of Rosin #2 and 75.86% of protect-o-coat from glass coupons via heated immersion with agitation.