

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2026
 DateRun: 08/25/2026
 Experimenters: Amelia Wagner
 ClientType: Lab
 ProjectNumber: Project #17
 Substrates:
 PartType: Coupon
 Contaminants: Greases
 Cleaning Methods: Immersion/Soak
 Analytical Methods: HSPiP

Purpose: Determining the HSP sphere for Boeing's soils: Phillips 66 Multiplex FS 220 #2

Experimental Procedure: Twenty-four scintillation vials were filled with 24 different solvents from TURI's HSP matrix. A small sample of the grease soil was put into each of the 24 vials, where the soil made up about 1% of the total contents of each vial. For the first hour, visual observations were taken every 10 minutes, then following the first hour observations were taken every half hour up until 3 hours. The vials were then allowed to sit overnight before final observations were taken. A "0" denotes that less than 90% of the target soil was dissolved. While a rating of "1" denotes greater than 90% dissolution of the target soil.

Results:	Solvent	Final Disolution
	Toluene	0
	Dimethyl Carbonate	0
	Xylenes	0
	Benzyl Alcohol	0
	Ethylene Glycol	0
	Methyl Acetate	0
	Undecane	0
	Ethyl Lactate	0
	Acetone	0
	Ethyl Acetate	0
	Methanol	0
	Ethanol	0
	1,3-Dioxolane	0
	Diethyl Carbonate	0
	1-Propanol	0
	Isopropanol	0
	Propylene Carbonate	0
	Thiophene	0
	1-Methoxy-2-Propanol	0
	Dimethyl Sulfoxide	0
	1-Butanol	0
	Dimethyl Glutarate	0
	Anisole	0
	2-Butoxyethyl-Acetate	0

Summary:

Conclusion: None of the 24 solvents were able to dissolve the soil to the required level within the observation period. Because of this, a sphere was not able to be generated and the HSP values of the soil remain unknown.