CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2022

DateRun: 09/09/2022

Experimenters: Jason Marshall

ClientType: Tool Manufacturer

ProjectNumber: Project #1

Substrates: Steel

PartType: Part

Contaminants: Inks

Cleaning Methods: Immersion/Soak

Analytical Methods: Smell

Purpose: To screen products for uv cured ink removal from printed saw blades

Experimental Procedure: Six products were selected from the lab CleanerSolutions database based on ink removal from metal parts. These products were then applied to individual provided saw blades using a squeeze bulb. About one milliliter was applied to the surface. Solutions were left on the surface and checked at five-minute intervals up to 30 minutes to see if any ink could be wiped from the surface.

Results: Several of the selected products showed positive removal of ink from the surface in the 30 minute room temperature tests.

Product	Observations
SC Supersolv	Removed some of the blue and yellow ink and grime (grey film)
DS 108	Removed blue
Soyclear 1500	Removed yellow and some grime
Citrus Burst 8	Removed less the DS108 but less than sec-butyl acetate
Bitu Ox Bio NT	Low amount of white ink removed
Solvent Blend 1 85%D-limonene; 15% dimethyl gluterate	Letters disappearing and removed grime
Solvent Blend 2 60% D-limonene; 31% Benzyl Benzoate; 9% dimethyl gluterate	Ink removed down to base metal. Top performer
Ektapro EEP	Some yellow and grime removed
Sec-butyl acetate	Removed blue - more than DS 108

Summary:

Substrates:	Steel
Contaminants:	Inks

Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
Gemtek Products	SC Supersolve Safety Solvent	100		☑	
Dysol	DS 108 F Wipe Solvent	100		☑	
AG Environmental Products	Soy Clear 1500	100		☑	
Florida Chemical Company	Citrus Burst 8	100		☑	
Green Way Products	Bitu Ox Blo NT	100		☐	
No Specific Vendor	Solvent Mix 85% D-limonene; 15% dimethyl glutarate	100		☑	
No Specific Vendor	Solvent Mix 60% D-limonene; 31% Benzyle Benzoate; 9% dimethyl glutarate	100		☑	Most effective

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Ashland Specialty Chemical Company	Ester Solvent EEP	100		☐	

Conclusion: The effective products will be tested in a follow-up experiment where parts will be partially immersed in the surface to determine how long it would take to remove ink from saw blade.