



OIL REPORT

LAB NUMBER: Q78792
 REPORT DATE: 2/28/2023
 CODE: 20/88

UNIT ID: N246SA
 CLIENT ID: 76596
 PAYMENT: Verbal, Danny

UNIT	MAKE/MODEL: Austro AE300	OIL TYPE & GRADE: Aeroshell Diesel Ultra
	FUEL TYPE: Diesel	OIL USE INTERVAL: 45 Hours
	ADDITIONAL INFO: DA40NG, S/N: E4-A-06229	

CLIENT	DANNY POTTER	PHONE: (937) 884-9795
	STEEL AVIATION - PHILLIPSBURG AIRPORT 53 NORTH ST PHILLIPSBURG, OH 45354	FAX: ALT PHONE: (937) 205-3512 EMAIL: danny@steelaviation.com, flytheburg@gmail.com, Jaime@steelaviation.com, kevin@steelaviation.com

COMMENTS
 DANNY: Amended report to update tail number. This is the first oil change for this engine and wear metals are already close to average levels. In most cases, we find a lot of metal (and silicon, from sealers) from new parts wearing in and it usually washes out with each oil change. It looks like most of it already washed out of this engine, so it's ahead of the curve. Copper is a touch high and it should drop on its own in the coming reports. Low silicon shows good air filtration, and the oil filter did a good job with insolubles. No measurable fuel or water contamination was found.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	45	UNIT / LOCATION AVERAGES					UNIVERSAL AVERAGES
	MI/HR on Unit	45						
	Sample Date	2/14/2023						
	Make Up Oil Added	0 qts						
ALUMINUM	4	4					4	
CHROMIUM	3	3					3	
IRON	40	40					63	
COPPER	5	5					2	
LEAD	4	4					1	
TIN	1	1					0	
MOLYBDENUM	0	0					1	
NICKEL	0	0					1	
MANGANESE	1	1					1	
SILVER	0	0					0	
TITANIUM	0	0					14	
POTASSIUM	1	1					1	
BORON	65	65					68	
SILICON	12	12					7	
SODIUM	2	2					3	
CALCIUM	2750	2750					2872	
MAGNESIUM	11	11					16	
PHOSPHORUS	1092	1092					934	
ZINC	1038	1038					1070	
BARIUM	1	1					0	

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°F	71.9	62-72				
	cSt Viscosity @ 100°C	13.45	10.8-13.5				
	Flashpoint in °F	450	>410				
	Fuel %	<0.5	<2.0				
	Antifreeze %	0.0	0.0				
	Water %	0.0	<0.1				
	Insolubles %	0.2	<0.6				
	TBN						
	TAN						
	ISO Code						

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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