



OIL REPORT

LAB NUMBER: Q66702

UNIT ID: N587RS

REPORT DATE: 1/23/2023

CLIENT ID: 2100

CODE: 1/88

PAYMENT: No Charge

UNIT

MAKE/MODEL: Rotax 912 ULS
FUEL TYPE: Gasoline (Unleaded)
ADDITIONAL INFO: Vans RV-12, Nickasil cylinders

OIL TYPE & GRADE: Aeroshell Sport Plus 4
OIL USE INTERVAL: 20 Hours

CLIENT

RYAN & SHERI STARK
828 W OAKDALE DRIVE
FORT WAYNE, IN 46807

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ALT PHONE:
EMAIL: RYAN_SHERI@YAHOO.COM

COMMENTS

RYAN/SHERI: Wow! A sample from the RV-12 is a rare find indeed. It's wearing well but you should get out and fly more. Tell your boss the lab said so. Oh wait, you are the boss. Well, you have permission from me to go take a day and fly. I'm calling nickel normal at this level but note fuel and the viscosity. Hope everything went back together right at the annual. Or maybe it's from all the idling you've been doing. Hard to say. No water found but I didn't ask Luke to do a KF. He'll probably do one if you say pretty please.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	20	UNIT / LOCATION AVERAGES	8	26	1	0	UNIVERSAL AVERAGES
	MI/HR on Unit	46		34	26	1	0	
	Sample Date	1/21/2023		11/10/2021	6/19/2021	5/27/2020	5/11/2019	
	Make Up Oil Added	1 qt		0 qts	600 ml	0 qts		
	ALUMINUM	5		4	5	2	2	
	CHROMIUM	1		1	1	0	0	
	IRON	17		11	15	6	8	
	COPPER	11		7	15	5	26	
	LEAD	3		3	5	6	8	
	TIN	0		1	2	1	1	
ELEMENTS IN PARTS PER MILLION	MOLYBDENUM	1	UNIT / LOCATION AVERAGES	0	1	1	0	UNIVERSAL AVERAGES
	NICKEL	6		4	6	4	7	
	MANGANESE	1		1	2	2	25	
	SILVER	1		1	1	2	0	
	TITANIUM	0		1	0	1	1	
	POTASSIUM	0		2	3	3	5	
	BORON	66		66	69	71	65	
	SILICON	14		11	15	12	58	
	SODIUM	5		3	5	3	9	
	CALCIUM	2542		2632	2595	2815	2478	
	MAGNESIUM	17		14	15	13	12	
	PHOSPHORUS	1603		1651	1626	1802	891	
	ZINC	1734		1848	1773	2002	922	
	BARIUM	10		7	21	27	80	

Values
Should Be*

PROPERTIES	SUS Viscosity @ 210°F	58.1	65-76	67.8	66.0	67.3	71.2
	cSt Viscosity @ 100°C	9.69	11.6-14.8	12.36	11.89	12.23	13.27
	Flashpoint in °F	360	>385	410	410	425	Short
	Fuel %	1.3	<1.0	<0.5	<0.5	<0.5	-
	Antifreeze %	0.0	0.0	0.0	0.0	0.0	0.0
	Water %	0.0	0.0	0.0	0.0	0.0	0.0
	Insolubles %	0.2	<0.6	0.1	0.1	TR	TR
	TBN						
	TAN						
	ISO Code						

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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