



OIL REPORT

LAB NUMBER: P94523

UNIT ID: N542LL

REPORT DATE: 7/8/2022

CLIENT ID: 123990

CODE: 63/68

PAYMENT: CC Online

UNIT

MAKE/MODEL: Rotax 912 UL
FUEL TYPE: Gasoline (Unleaded)
ADDITIONAL INFO: Flight Design CTSW, S/N 5-647-614

OIL TYPE & GRADE: Mobil 1 Racing 4T 10W/40
OIL USE INTERVAL: 58 Hours

CLIENT

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COMMENTS

ANTHONY: There are a couple points of interest in this report for N542LL. Copper is on the higher side, showing more brass or bronze wear than the average 912UL. That's the only wear metal out of line, though, and high copper by itself usually isn't a problem. Leftover wear-in from past repairs, for example, can have it reading high for a number of oil changes. There's also fuel dilution, present 1.5%. Fuel likely thinned the viscosity below grade, and this is enough of it to be worth checking back on. Hopefully it's just from cold sampling or something similarly benign.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	58	UNIT / LOCATION AVERAGES						UNIVERSAL AVERAGES
	MI/HR on Unit	1,462							
	Sample Date	6/25/2022							
	Make Up Oil Added								
	ALUMINUM	4	4						3
	CHROMIUM	0	0						1
	IRON	21	21						29
	COPPER	23	23						6
	LEAD	7	7						19
	TIN	3	3						1
	MOLYBDENUM	48	48						27
	NICKEL	2	2						1
	MANGANESE	0	0						1
	SILVER	0	0						0
	TITANIUM	0	0						0
	POTASSIUM	3	3						1
	BORON	162	162						94
	SILICON	7	7						8
	SODIUM	8	8						5
	CALCIUM	1992	1992						2034
	MAGNESIUM	15	15						463
	PHOSPHORUS	893	893						1132
	ZINC	1087	1087						1309
	BARIUM	1	1						1

Values
Should Be*

PROPERTIES	SUS Viscosity @ 210°F	63.1	65-76					
	cSt Viscosity @ 100°C	11.10	11.6-14.8					
	Flashpoint in °F	355	>385					
	Fuel %	1.5	<1.0					
	Antifreeze %	0.0	0.0					
	Water %	0.0	<0.1					
	Insolubles %	0.1	<0.6					
	TBN							
	TAN							
	ISO Code							

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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