



OIL REPORT

LAB NUMBER: R90562

UNIT ID: N991RM

REPORT DATE: 12/6/2023

CLIENT ID: 157593

CODE: 20/88

PAYMENT: CC: Visa

UNIT	MAKE/MODEL: Lycoming IO-540-K1H5	OIL TYPE & GRADE: Phillips 66 Victory 100AW (AD)
	FUEL TYPE: Gasoline (Leaded)	OIL USE INTERVAL: 16 Hours
	ADDITIONAL INFO: Glasair III, DB1, S/N: DB-1, E/N: RL-27103-48E, Highly modified racing engine, running NOX	

CLIENT	TIMOTHY WILDE	PHONE: (630) 743-3885
	1490 BEACH BLVD	FAX:
	BILOXI, MS 39530	ALT PHONE:
		EMAIL: timothy@timothywilde.com

COMMENTS	TIMOTHY: Thanks for the notes. We're noting steady wear numbers and an increase in silicon in N991RM's latest sample. High silicon in this case is probably just harmless sealers/lubes used during the recent work, so we'll look for this element to drop next time around. The only other highlight to address is for the flashpoint reading a bit low, showing fuel made up 0.8% of the sample. This amount of fuel is commonly from situational factors, so it's not a concerning find. Nice report, all told!
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ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	16	UNIT / LOCATION AVERAGES	21	35	21	59	12	UNIVERSAL AVERAGES
	MI/HR on Unit	430		415	393	358	270	210	
	Sample Date	11/3/2023		5/2/2023	10/22/2022	7/24/2022	3/14/2020	5/10/2019	
	Make Up Oil Added	0 qts					0 qts	2 qts	
	ALUMINUM	4		4	6	9	11	3	
	CHROMIUM	3		4	5	6	7	2	
	IRON	10		19	32	26	25	12	
	COPPER	4		7	9	8	8	15	
	LEAD	1291		3216	4456	3415	3693	2144	
	TIN	1		1	1	1	3	0	
	MOLYBDENUM	0		0	0	0	0	0	
	NICKEL	1		2	1	2	2	1	
	MANGANESE	0		0	0	0	0	0	
	SILVER	0		0	0	0	0	0	
	TITANIUM	0		0	0	0	0	0	
	POTASSIUM	0		0	0	0	1	1	
	BORON	1		0	0	0	0	1	
	SILICON	28		11	20	7	9	16	
	SODIUM	1		2	1	1	2	1	
	CALCIUM	0		0	0	1	3	6	
	MAGNESIUM	2		3	3	4	5	11	
	PHOSPHORUS	1524		1157	1214	1260	1160	1171	
	ZINC	2		4	4	5	6	17	
	BARIUM	0		0	0	0	0	0	

Values
Should Be*

PROPERTIES	SUS Viscosity @ 210°F	91.7	85-104	104.5	97.7	95.4	91.3	91.7
	cSt Viscosity @ 100°C	18.38	16.8-21.5	21.40	19.82	19.26	18.30	18.38
	Flashpoint in °F	445	>460	490	SHORT	490	515	480
	Fuel %	0.8	<1.0	<0.5	-	<0.5	<0.5	<0.5
	Antifreeze %	-		-	-	-	-	-
	Water %	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Insolubles %	0.3	<0.6	0.4	0.3	0.3	0.2	0.1
	TBN							
	TAN							
	ISO Code							

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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