



OIL REPORT

LAB NUMBER: N51066

UNIT ID: N2104J

REPORT DATE: 6/10/2021

CLIENT ID: 166141

CODE: 20/68

PAYMENT: CC: AmEx

UNIT	MAKE/MODEL: Lycoming IO-540-K1G5	OIL TYPE & GRADE: Aeroshell W100 Plus (AD)
	FUEL TYPE: Gasoline (Leaded)	OIL USE INTERVAL: 30 Hours
	ADDITIONAL INFO: Piper Cherokee 6, S/N RL-23947-E	

CLIENT	JONATHAN SIEMENS	PHONE: (432) 788-7137
	FLYTEX AVIATION LLC	FAX:
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	SEMINOLE, TX 79360	EMAIL: jonathan@flytexaviation.com

COMMENTS	JONATHAN: This is a nice first report for N2104J. We compared the results to universal averages, which display typical wear levels for an IO-540-K1G5 after ~35 hours on the oil. Metals in this sample compare well with averages, showing no signs of mechanical trouble under the cowl. The physical properties are within specifications for Aeroshell W100 Plus. Note phosphorus isn't as high as we'd expect if W100 Plus were the only oil type used, so maybe something else was added. That's not a big deal, though. This engine is doing well from our end!
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ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	30	UNIT / LOCATION AVERAGES						UNIVERSAL AVERAGES
	MI/HR on Unit	211							
	Sample Date	5/6/2021							
	Make Up Oil Added								
	ALUMINUM	6	6						7
	CHROMIUM	3	3						4
	IRON	19	19						30
	COPPER	10	10						8
	LEAD	3040	3040						4131
	TIN	1	1						1
	MOLYBDENUM	0	0						0
	NICKEL	1	1						2
	MANGANESE	0	0						0
	SILVER	0	0						0
	TITANIUM	0	0						0
	POTASSIUM	0	0						0
	BORON	3	3						1
	SILICON	4	4						5
	SODIUM	4	4						1
	CALCIUM	1	1						18
	MAGNESIUM	5	5						6
	PHOSPHORUS	551	551						711
	ZINC	6	6						8
	BARIUM	0	0						0

Values
Should Be*

PROPERTIES	SUS Viscosity @ 210°F	102.6	86-105					
	cSt Viscosity @ 100°C	20.97	17.0-21.8					
	Flashpoint in °F	505	>460					
	Fuel %	<0.5	<1.0					
	Antifreeze %	-						
	Water %	0.0	0.0					
	Insolubles %	0.4	<0.6					
	TBN							
	TAN							
	ISO Code							

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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