



OIL REPORT

LAB NUMBER: K57225

UNIT ID: N3212T

REPORT DATE: 9/27/2018

CLIENT ID: 23123

CODE: 41/32

PAYMENT: CC: Visa

UNIT	MAKE/MODEL: Lycoming O-320-E2D	OIL TYPE & GRADE: Aeroshell W100 (AD)
	FUEL TYPE: Gasoline (Leaded)	OIL USE INTERVAL: 6 Hours
	ADDITIONAL INFO: Cessna Cardinal 177; Eng S/N L-20623-27A	

CLIENT	CHARLES MOUNT	PHONE: (904) 813-0636
	3504 MORNINGWOOD CT NE	FAX:
	SUWANEE, GA 30024	ALT PHONE:
		EMAIL: chuck@mountpoint.org

COMMENTS	CHARLES: Metals are lower than usual in this latest sample from N3212T. But this oil was also in use for just 5.84 hours, which is probably the main reason behind the improvements. Iron is already above average at 32 ppm, showing a pretty high level of steel wear. Or the iron could be from corrosion depending on how often the plane has been flying since last September. If it took more than a month or so to get 5.84 hours on this sample, corrosion is the most likely reason for the extra iron. If compressions are good, check back in about 10 hours to monitor.
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	MI/HR on Oil	6	UNIT / LOCATION AVERAGES	52	44	44	35	22	UNIVERSAL AVERAGES
	MI/HR on Unit	722		678	602	535	2,335	416	
	Sample Date	9/20/2018		9/17/2017	3/8/2016	7/9/2014	2/9/2013	1/14/2012	
	Make Up Oil Added	0 qts		2 qts	2 qts	4 qts	2 qts	1 qt	
ELEMENTS IN PARTS PER MILLION	ALUMINUM	3	7	16	10	5	6	4	5
	CHROMIUM	5	30	23	25	17	20	20	6
	IRON	32	48	78	81	56	47	34	25
	COPPER	2	7	5	6	6	7	6	5
	LEAD	1352	2242	4809	5051	3736	2954	2365	2822
	TIN	0	2	1	3	3	1	4	1
	MOLYBDENUM	0	0	0	0	0	0	0	0
	NICKEL	2	4	4	6	6	6	5	2
	MANGANESE	0	0	1	1	0	1	0	0
	SILVER	0	0	0	0	0	0	0	0
	TITANIUM	0	0	0	0	0	0	0	0
	POTASSIUM	1	1	1	2	0	0	0	1
	BORON	2	0	0	1	0	1	1	1
	SILICON	4	7	5	4	4	4	4	5
	SODIUM	2	1	1	2	1	1	0	1
	CALCIUM	1	2	1	0	0	0	0	19
	MAGNESIUM	0	0	0	0	0	0	0	1
	PHOSPHORUS	17	67	342	6	0	26	4	521
	ZINC	1	3	3	2	2	2	1	4
	BARIUM	0	0	0	0	0	0	0	0

Values
Should Be*

PROPERTIES	SUS Viscosity @ 210°F	95.2	86-105	98.5	99.2	98.5	94.5	85.8
	cSt Viscosity @ 100°C	19.23	17.0-21.8	20.00	20.18	20.01	19.05	16.97
	Flashpoint in °F	495	>460	520	470	445	530	460
	Fuel %	<0.5	<1.0	<0.5	<0.5	0.8	<0.5	TR
	Antifreeze %	-		-	-	-	-	-
	Water %	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Insolubles %	0.3	<0.6	0.2	0.4	0.3	0.4	0.3
	TBN							
	TAN							
	ISO Code							

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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