



OIL REPORT

LAB NUMBER: M88311

UNIT ID: N3212T

REPORT DATE: 11/30/2020

CLIENT ID: 23123

CODE: 41/68

PAYMENT: CC: Visa

UNIT

MAKE/MODEL: Lycoming O-320-E2D
FUEL TYPE: Gasoline (Leaded)
ADDITIONAL INFO: Cessna Cardinal 177; Eng S/N L-20623-27A, 17700512

OIL TYPE & GRADE: Aeroshell W100 (AD)
OIL USE INTERVAL: 30 Hours

CLIENT

CHARLES MOUNT
3504 MORNINGWOOD CT NE
SUWANEE, GA 30024

PHONE: (904) 813-0636
FAX:
ALT PHONE:
EMAIL: chuck@mountpoint.org

COMMENTS

CHARLES: Chrome and iron both declined enough to unmark. Their wear rates (ppm/hour) haven't really improved, but they are pretty consistent with the last similar interval (10/17/19) and that counts for something. Usually higher than average wear metals from a developing issue will dip and spike erratically, or just keep trending up and up. We're going to watch how trends for these metals unfold, but if CHTs are normal, the oil filter is staying clean and compressions were good at the last annual, we wouldn't say there's any cause for concern. Just check back next oil.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	30	UNIT / LOCATION AVERAGES	52	29	6	52	44	UNIVERSAL AVERAGES
	MI/HR on Unit	835		804	752	722	678	602	
	Sample Date	11/14/2020		6/20/2020	10/17/2019	9/20/2018	9/17/2017	3/8/2016	
	Make Up Oil Added	3 qts		3 qts	2 qts	0 qts	2 qts	2 qts	
	ALUMINUM	7		9	6	3	16	10	
	CHROMIUM	12		19	12	5	23	25	
	IRON	45		70	51	32	78	81	
	COPPER	4		6	3	2	5	6	
	LEAD	2699		3696	3018	1352	4809	5051	
	TIN	2		3	0	0	1	3	
	MOLYBDENUM	0		0	0	0	0	0	
	NICKEL	5		6	4	2	4	6	
	MANGANESE	0		1	1	0	1	1	
	SILVER	0		0	0	0	0	0	
	TITANIUM	0		0	0	0	0	0	
	POTASSIUM	0		1	0	1	1	2	
	BORON	0		1	0	2	0	1	
	SILICON	3		4	4	4	5	4	
	SODIUM	1		1	1	2	1	2	
	CALCIUM	1		1	0	1	1	0	
	MAGNESIUM	1		1	0	0	0	0	
	PHOSPHORUS	4		8	15	17	342	6	
	ZINC	2		3	1	1	3	2	
	BARIUM	0		0	0	0	0	0	

Values
Should Be*

PROPERTIES	SUS Viscosity @ 210°F	94.2	86-105	91.5	94.4	95.2	98.5	99.2
	cSt Viscosity @ 100°C	18.99	17.0-21.8	18.33	19.03	19.23	20.00	20.18
	Flashpoint in °F	515	>460	485	515	495	520	470
	Fuel %	<0.5	<1.0	<0.5	<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	0.2	0.4	0.3	0.2	0.4
	TBN							
	TAN							
	ISO Code							

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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