



## OIL REPORT

LAB NUMBER: D65305

UNIT ID: N3212T

REPORT DATE: 2/2/2009

CLIENT ID: 23123

CODE: 41/284

PAYMENT: CC: Visa

UNIT	MAKE/MODEL: Lycoming O-320-E2D	OIL TYPE & GRADE: Aeroshell W100 (AD)
	FUEL TYPE: Gasoline (Leaded)	OIL USE INTERVAL: 19 Hours
	ADDITIONAL INFO: Cessna 177; Eng S/N L-26623-27A	

CLIENT	CHARLES MOUNT	PHONE: (904) 813-0636
	1621 HAMPTON PLACE	FAX:
	ORANGE PARK, FL 32003	ALT PHONE: EMAIL: chuck@mountpoint.org

COMMENTS	CHARLES: We talked about the possibility of corrosion and the silicon in the last report. You may have made gains on both problems, assuming one or both ideas were correct. This 19-hours was run in less than 5-months and that is bound to help wash away any corrosion that has accumulated at the cylinders. Silicon dropped. The chrome is still too high for a steel cylindered engine. If you have Millennials, the wear problem still exists though it is not an unusual one. Stay at about 20-hours and check back. Watch the oil filter for any unusual non-ferrous metal.							

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	19	UNIT / LOCATION AVERAGES	19	8	20	27	42	UNIVERSAL AVERAGES
	MI/HR on Unit	242		223	2,265	216	148	72	
	Sample Date	01/22/09		09/03/08	03/18/08	12/20/07	06/04/07	02/02/07	
	Make Up Oil Added	1 qt		0 qts	0 qts	0 qt	1 qt		
	ALUMINUM	9	9	13	4	9	8	9	5
	CHROMIUM	52	40	49	17	38	18	40	6
	IRON	40	43	60	13	42	69	40	23
	COPPER	6	10	7	4	10	19	13	5
	LEAD	1486	1708	1510	766	1573	1719	2885	2513
	TIN	1	2	4	0	1	4	2	1
	MOLYBDENUM	0	0	0	0	0	0	0	0
	NICKEL	2	3	3	1	2	2	7	2
	MANGANESE	0	0	1	0	0	1	0	0
	SILVER	0	0	0	0	0	0	0	0
	TITANIUM	0	0	0	0	0	0	0	0
	POTASSIUM	0	1	1	0	1	3	0	0
	BORON	0	0	0	0	0	0	0	0
	SILICON	7	10	10	6	12	26	4	5
	SODIUM	1	0	0	0	0	2	0	0
	CALCIUM	1	2	0	0	0	9	1	3
	MAGNESIUM	1	1	2	0	1	1	1	0
	PHOSPHORUS	14	106	169	0	0	58	498	438
	ZINC	2	4	2	0	2	17	2	4
	BARIUM	0	0	0	0	0	0	0	0

Values  
Should Be\*

PROPERTIES	SUS Viscosity @ 210°F	88.3	86-105	90.3	86.9	91.1	97.5	95.5
	cSt Viscosity @ 100°C	17.58	17.0-21.8	18.05	17.24	18.25	19.76	19.29
	Flashpoint in °F	520	>460	485	495	510	515	485
	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 %	0.2	<0.6	0.4	0.3	0.4	0.4	0.3
	TBN							
	TAN							
	ISO Code							

\* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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