



OIL REPORT

LAB NUMBER: D79966

UNIT ID: N3212T

REPORT DATE: 6/30/2009

CLIENT ID: 23123

CODE: 41/284

PAYMENT: Prepaid

UNIT

MAKE/MODEL: Lycoming O-320-E2D

OIL TYPE & GRADE: Aeroshell W100 (AD)

FUEL TYPE: Gasoline (Leaded)

OIL USE INTERVAL: 29 Hours

ADDITIONAL INFO: Cessna 177; Eng S/N L-26623-27A, Nickel Cyls

CLIENTCHARLES MOUNT
1621 HAMPTON PLACE
ORANGE PARK, FL 32003PHONE: (904) 813-0636
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EMAIL: chuck@mountpoint.org**COMMENTS**

CHARLES: Wear improved nicely in this sample, which was run longer than the last. Chrome, from the rings, is still considerably higher than we'd like to see. It's been reading high in all of the samples on this page so this is nothing new for this engine. No fuel or moisture was present and the viscosity of the oil read normally. At 2,332 total hours, we have no new problems to report. If the engine is running well, compressions check out, and the oil filter is clean, we suggest resampling in another 25-30 hours to monitor.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	29	UNIT / LOCATION AVERAGES	19	19	8	20	27	UNIVERSAL AVERAGES
	MI/HR on Unit	2,332		242	223	2,265	216	148	
	Sample Date	06/17/09		01/22/09	09/03/08	03/18/08	12/20/07	06/04/07	
	Make Up Oil Added			1 qt	0 qts	0 qts	0 qt	1 qt	
	ALUMINUM	5		9	13	4	9	8	
	CHROMIUM	39		52	49	17	38	18	
	IRON	36		40	60	13	42	69	
	COPPER	7		6	7	4	10	19	
	LEAD	2622		1486	1510	766	1573	1719	
	TIN	0		1	4	0	1	4	
	MOLYBDENUM	0		0	0	0	0	0	
	NICKEL	4		2	3	1	2	2	
	MANGANESE	0		0	1	0	0	1	
	SILVER	0		0	0	0	0	0	
	TITANIUM	0		0	0	0	0	0	
	POTASSIUM	0		0	1	0	1	3	
	BORON	0		0	0	0	0	0	
	SILICON	8		7	10	6	12	26	
	SODIUM	0		1	0	0	0	2	
	CALCIUM	1		1	0	0	0	9	
	MAGNESIUM	0		1	2	0	1	1	
	PHOSPHORUS	338		14	169	0	0	58	
	ZINC	5		2	2	0	2	17	
	BARIUM	0		0	0	0	0	0	

Values
Should Be*

PROPERTIES	SUS Viscosity @ 210°F	92.9	86-105	88.3	90.3	86.9	91.1	97.5
	cSt Viscosity @ 100°C	18.68	17.0-21.8	17.58	18.05	17.24	18.25	19.76
	Flashpoint in °F	470	>460	520	485	495	510	515
	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 %	0.4	<0.6	0.2	0.4	0.3	0.4	0.4
	TBN							
	TAN							
	ISO Code							

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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