



OIL REPORT

LAB NUMBER: E88368

UNIT ID: N3212T

REPORT DATE: 2/1/2012

CLIENT ID: 23123

CODE: 41/75

PAYMENT: CC: Discover

UNIT

MAKE/MODEL: Lycoming O-320-E2D

OIL TYPE & GRADE: Aeroshell W100 (AD)

FUEL TYPE: Gasoline (Leaded)

OIL USE INTERVAL: 22 Hours

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

CLIENTCHARLES MOUNT
3504 MORNINGWOOD CT NE
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ALT PHONE:
EMAIL: chuck@mountpoint.org**COMMENTS**

CHARLES: The most unusual finding in this report was the viscosity that read low and that trace of fuel present. Neither finding is altogether concerning, but since they're new findings, it's best to mention them. The fuel is likely due to priming or operational factors and chances are good your recent oil change has already taken care of it. If not, we'll let you know next time. Wear metals look good -- better than we were seeing over the last few years. Chrome tends to run high in this O-320, we think because of chrome cylinders. If not, let us know. No new problems.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	22	UNIT / LOCATION AVERAGES	25	6	22	24	29	UNIVERSAL AVERAGES
	MI/HR on Unit	416		394	2,430	463	293	2,332	
	Sample Date	01/14/12		09/10/11	04/24/11	12/28/10	11/08/09	06/17/09	
	Make Up Oil Added	1 qt		2 qts	0 qts	2 qts	0 qts		
	ALUMINUM	4	7	5	3	11	8	5	5
	CHROMIUM	20	35	26	12	33	38	39	6
	IRON	34	47	34	27	128	42	36	24
	COPPER	6	8	6	3	6	6	7	5
	LEAD	2365	1924	2300	954	2416	2406	2622	2579
	TIN	4	2	3	0	0	0	0	1
	MOLYBDENUM	0	0	0	0	1	0	0	0
	NICKEL	5	4	5	2	6	4	4	2
	MANGANESE	0	0	0	0	1	0	0	0
	SILVER	0	0	0	0	0	0	0	0
	TITANIUM	0	0	0	0	0	0	0	0
	POTASSIUM	0	1	3	2	1	2	0	0
	BORON	1	0	0	0	1	2	0	0
	SILICON	4	8	4	3	5	8	8	5
	SODIUM	0	0	0	0	0	0	0	0
	CALCIUM	0	2	0	0	10	1	1	6
	MAGNESIUM	0	1	0	0	1	0	0	0
	PHOSPHORUS	4	83	0	3	0	1	338	448
	ZINC	1	3	0	0	6	2	5	4
	BARIUM	0	0	0	0	0	0	0	0

Values
Should Be*

PROPERTIES	SUS Viscosity @ 210°F	85.8	86-105	90.7	93.4	90.3	88.5	92.9
	cSt Viscosity @ 100°C	16.97	17.0-21.8	18.15	18.79	18.05	17.62	18.68
	Flashpoint in °F	460	>460	515	490	480	490	470
	Fuel %	TR	<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	0.0	0.2	0.3	0.3	0.4
	TBN							
	TAN							
	ISO Code							

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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