



OIL REPORT

LAB NUMBER: E40534

UNIT ID: N3212T

REPORT DATE: 1/7/2011

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 Cylds	

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

COMMENTS	CHARLES: The increase in iron caught our attention. Aluminum and nickel increased as well, but these levels really aren't anything to lose sleep over. Iron shows a steel part or parts that's not wearing like it should. We're not sure if the vacuum failure would result in the high iron. If there's a steel shaft that's part of that system, that might explain it. Since chrome has been reading higher than average, you might have a chrome cylinder or two. Looking back in the logbook might shed some light on that. Watch compressions and for oil filter metal, and check back in 15-20 hrs.
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	MI/HR on Oil	22	UNIT / LOCATION AVERAGES	24	29	19	19	8	UNIVERSAL AVERAGES
	MI/HR on Unit	463		293	2,332	242	223	2,265	
	Sample Date	12/28/10		11/08/09	06/17/09	01/22/09	09/03/08	03/18/08	
	Make Up Oil Added	2 qts		0 qts		1 qt	0 qts	0 qts	
ELEMENTS IN PARTS PER MILLION	ALUMINUM	11	9	8	5	9	13	4	5
	CHROMIUM	33	39	38	39	52	49	17	6
	IRON	128	51	42	36	40	60	13	24
	COPPER	6	9	6	7	6	7	4	5
	LEAD	2416	1940	2406	2622	1486	1510	766	2594
	TIN	0	1	0	0	1	4	0	1
	MOLYBDENUM	1	0	0	0	0	0	0	0
	NICKEL	6	4	4	4	2	3	1	2
	MANGANESE	1	0	0	0	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	2	0	0	1	0	0
	BORON	1	0	2	0	0	0	0	0
	SILICON	5	9	8	8	7	10	6	5
	SODIUM	0	0	0	0	1	0	0	0
	CALCIUM	10	3	1	1	1	0	0	5
	MAGNESIUM	1	1	0	0	1	2	0	0
	PHOSPHORUS	0	108	1	338	14	169	0	444
	ZINC	6	4	2	5	2	2	0	4
	BARIUM	0	0	0	0	0	0	0	0

Values
Should Be*

PROPERTIES	SUS Viscosity @ 210°F	90.3	86-105	88.5	92.9	88.3	90.3	86.9
	cSt Viscosity @ 100°C	18.05	17.0-21.8	17.62	18.68	17.58	18.05	17.24
	Flashpoint in °F	480	>460	490	470	520	485	495
	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	0.3	0.4	0.2	0.4	0.3
	TBN							
	TAN							
	ISO Code							

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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