



OIL REPORT

LAB NUMBER: D52858

UNIT ID: N3212T

REPORT DATE: 9/23/2008

CLIENT ID: 23123

CODE: 41/284

PAYMENT: CC: Visa

UNIT

MAKE/MODEL: Lycoming O-320-E2D

FUEL TYPE: Gasoline (Leaded)

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

OIL TYPE & GRADE: Aeroshell W100 (AD)

OIL USE INTERVAL: 19 Hours

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

CHARLES: All wear increased since last sample, the metals highlighted getting up there near the caution range. These readings are all excessive for an oil run only 19 hours, so we think a closer look at this engine may be necessary. Of course, inactivity could be a factor in the higher wear and if that's the case, then these high readings may only be temporary. Silicon could also be a factor if it's form dirt getting past the air filter, so check this system closely. If that's okay, the oil filter is free of any metal and the engine is running well, check back in 15-20 hours.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	19	UNIT / LOCATION AVERAGES	8	20	27	42	30	UNIVERSAL AVERAGES
	MI/HR on Unit	223		2,265	216	148	72	79	
	Sample Date	09/03/08		03/18/08	12/20/07	06/04/07	02/02/07	06/29/06	
	Make Up Oil Added	0 qts		0 qts	0 qt	1 qt		2 qts	
	ALUMINUM	13		9	4	9	8	9	
	CHROMIUM	49		39	17	38	18	40	
	IRON	60		44	13	42	69	40	
	COPPER	7		11	4	10	19	13	
	LEAD	1510		1745	766	1573	1719	2885	
	TIN	4		2	0	1	4	2	
	MOLYBDENUM	0		0	0	0	0	0	
	NICKEL	3		4	1	2	2	7	
	MANGANESE	1		1	0	0	1	0	
	SILVER	0		0	0	0	0	0	
	TITANIUM	0		0	0	0	0	0	
	POTASSIUM	1		1	0	1	3	0	
	BORON	0		0	0	0	0	0	
	SILICON	10		10	6	12	26	4	
	SODIUM	0		0	0	0	2	0	
	CALCIUM	0		2	0	0	9	1	
	MAGNESIUM	2		1	0	1	1	0	
	PHOSPHORUS	169		121	0	0	58	498	
	ZINC	2		4	0	2	17	2	
	BARIUM	0		0	0	0	0	0	

Values
Should Be*

PROPERTIES	SUS Viscosity @ 210°F	90.3	86-105	86.9	91.1	97.5	95.5	79.7
	cSt Viscosity @ 100°C	18.05	17.0-21.8	17.24	18.25	19.76	19.29	15.44
	Flashpoint in °F	485	>460	495	510	515	485	465
	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	0.3	0.4	0.4	0.3	0.4
	TBN							
	TAN							
	ISO Code							

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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