



OIL REPORT

LAB NUMBER: E53563

UNIT ID: N3212T

REPORT DATE: 4/28/2011

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: 6 Hours

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

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

CHARLES: Iron (along with most other wear metals) improved nicely in this sample. The shorter oil run is likely the reason for the lower wear, but we still like seeing it. The other wear metals still look really good, so we're not sure what's causing the higher iron. Physically, the oil was in good shape. No fuel or moisture was found and the air and oil filters got the job done. Watch the oil filter for metal and check back in another 10-15 hours.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	6	UNIT / LOCATION AVERAGES	22	24	29	19	19	UNIVERSAL AVERAGES
	MI/HR on Unit	2,430		463	293	2,332	242	223	
	Sample Date	04/24/11		12/28/10	11/08/09	06/17/09	01/22/09	09/03/08	
	Make Up Oil Added	0 qts		2 qts	0 qts		1 qt	0 qts	
	ALUMINUM	3		11	8	5	9	13	
	CHROMIUM	12		33	38	39	52	49	
	IRON	27		128	42	36	40	60	
	COPPER	3		6	6	7	6	7	
	LEAD	954		2416	2406	2622	1486	1510	
	TIN	0		0	0	0	1	4	
	MOLYBDENUM	0		1	0	0	0	0	
	NICKEL	2		6	4	4	2	3	
	MANGANESE	0		1	0	0	0	1	
	SILVER	0		0	0	0	0	0	
	TITANIUM	0		0	0	0	0	0	
	POTASSIUM	2		1	2	0	0	1	
	BORON	0		1	2	0	0	0	
	SILICON	3		5	8	8	7	10	
	SODIUM	0		0	0	0	1	0	
	CALCIUM	0		10	1	1	1	0	
	MAGNESIUM	0		1	0	0	1	2	
	PHOSPHORUS	3		0	1	338	14	169	
	ZINC	0		6	2	5	2	2	
	BARIUM	0		0	0	0	0	0	

Values
Should Be*

PROPERTIES	SUS Viscosity @ 210°F	93.4	86-105	90.3	88.5	92.9	88.3	90.3
	cSt Viscosity @ 100°C	18.79	17.0-21.8	18.05	17.62	18.68	17.58	18.05
	Flashpoint in °F	490	>460	480	490	470	520	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	0.3	0.3	0.4	0.2	0.4
	TBN							
	TAN							
	ISO Code							

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

416 E. PETTIT AVE. FORT WAYNE, IN 46806 (260) 744-2380 www.blackstone-labs.com