



P.O. NUMBER: Prepaid
CODE: 41/23123/37

UNIT NUMBER: N3212T
REPORT DATE: 2/9/07
LAB NUMBER: C96987

OIL REPORT

CLIENT	CONTACT:	PHONE: (904) 813-0636
	NAME: CHARLES MOUNT	FAX:
	ADDRESS: 1621 HAMPTON PLACE	E-MAIL: chuck@mountpoint.org
	ORANGE PARK, FL 32003	

UNIT	EQUIPMENT MAKE: Lycoming	OIL USE INTERVAL: 42 Hours
	EQUIPMENT MODEL: O-320-E2D	OIL TYPE & GRADE: Aeroshell W100 Plus (AD)
	FUEL TYPE: Gasoline (Leaded)	MAKE-UP OIL ADDED:
	ADDITIONAL INFO: Cessna 177; Eng S/N L-26623-27A	

COMMENTS	CHARLES: There was nothing of concern found in this second sample from your newly overhauled O-320-E2D. We can't tell by the engine hours which oil change this may be, but we would guess this was the first AD oil in the engine. The extra dispersency of the oil invariably picks up metal-laden sludge that was left behind by the mineral fills and we see mild wear increases, accordingly. Chrome made a nice improvement. If it still too high but maybe it will improve in the next sample or two. Steel cylinders, right? Chrome should read at 6-ppm.
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ELEMENTS IN PARTS PER MILLION	MI/HR ON OIL	42	UNIT /	30					
	MI/HR ON UNIT	72	LOCATION	79					
	SAMPLE DATE	02/02/07	AVERAGES	06/29/06					UNIVERSAL AVERAGES
	ALUMINUM	9	9	9					5
	CHROMIUM	40	55	69					6
	IRON	40	40	40					23
	COPPER	13	12	11					4
	LEAD	2885	2450	2014					2466
	TIN	2	2	2					1
	MOLYBDENUM	0	0	0					0
	NICKEL	7	7	6					1
	MANGANESE	0	1	1					0
	SILVER	0	0	0					0
	TITANIUM	0	0	0					0
	POTASSIUM	0	0	0					0
	BORON	0	0	0					0
	SILICON	4	4	4					5
	SODIUM	0	0	0					0
	CALCIUM	1	2	2					3
	MAGNESIUM	1	1	0					0
	PHOSPHORUS	498	249	0					439
	ZINC	2	2	1					4
	BARIUM	0	0	0					0

PROPERTIES	TEST	cST VISCOSITY @ 40 °C	SUS VISCOSITY @ 100 °F	VISCOSITY INDEX	cST VISCOSITY @ 100 °C	SUS VISCOSITY @ 210 °F	FLASHPOINT IN °F	FUEL %	ANTIFREEZE %	WATER %	INSOLUBLES %
	VALUES SHOULD BE					86-105	>460	<1.0		0.0	<0.6
	TESTED VALUES WERE					95.5	485	<0.5	-	0.0	0.3