



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

UNIT NUMBER N3212T
REPORT DATE: 7/17/06
LAB NUMBER: C78974

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: 30 Hours
	EQUIPMENT MODEL: O-320-E2D	OIL TYPE & GRADE: Aeroshell W80 (AD)
	FUEL TYPE: Gasoline (Leaded)	MAKE-UP OIL ADDED: 2 qts
	ADDITIONAL INFO: Cessna 177; Eng S/N L-26623-27A	

COMMENTS	CHARLES: The high wear metals and silicon are not unusual finds in the oil from your newly overhauled O-320. In fact, we would have been surprised if we didn't find them. The wear is high due to break-in of new parts, while silicon is from sealers and sand-casted parts. Universal averages show typical wear metals for an oil from this engine after 30 hours use. We expect your engine will look that good or better in two or three more oil changes. Lycoming engines tend to wear very nicely, and yours will too once it's past wear-in. Check back to see improvements.
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ELEMENTS IN PARTS PER MILLION	MI/HR ON OIL	30	UNIT / LOCATION AVERAGES							UNIVERSAL AVERAGES
	MI/HR ON UNIT	79								
	SAMPLE DATE	06/29/06								
	ALUMINUM	9	9							5
	CHROMIUM	69	69							6
	IRON	40	40							23
	COPPER	11	11							4
	LEAD	2014	2014							2452
	TIN	2	2							1
	MOLYBDENUM	0	0							0
	NICKEL	6	6							2
	MANGANESE	1	1							0
	SILVER	0	0							0
	TITANIUM	0	0							0
	POTASSIUM	0	0							0
	BORON	0	0							0
	SILICON	4	4							5
	SODIUM	0	0							1
	CALCIUM	2	2							3
	MAGNESIUM	0	0							0
	PHOSPHORUS	0	0							456
	ZINC	1	1							4
	BARIUM	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					74-85	>450	<1.0		0.0	<0.6
	TESTED VALUES WERE					79.7	465	<0.5	-	0.0	0.4