BLACKSTONE LABORATORIES

P.O. NUMBER CC: Visa (Prepaid)
CODE: 41/23123/284

OIL REPORT

UNIT NUMBER   N3212T
REPORT DATE: 6/13/07
LAB NUMBER: D07930

CLIENT

CONTACT:
NAME: CHARLES MOUNT
ADDRESS: 1621 HAMPTON PLACE
ORANGE PARK, FL 32003

PHONE: (904) 813-0636
FAX:
E-MAIL: chuck@mountpoint.org

UNIT

EQUIPMENT MAKE: Lycoming
EQUIPMENT MODEL: O-320-E2D
FUEL TYPE: Gasoline (Leaded)
ADDITIONAL INFO: Cessna 177; Eng S/N L-26623-27A

OIL USE INTERVAL: 27 Hours
OIL TYPE & GRADE: Aeroshell 100 Mineral
MAKE-UP OIL ADDED: 1 qt

COMMENTS

CHARLES: Thanks for the note. The four new cylinders are hopefully the reason we found higher wear in this sample. Chrome is typically from wear-in at the rings, while iron is from the steel cylinders themselves. Copper typically comes from a bronze part, or in conjunction with zinc can show brass, like at the oil cooler. Silicon is from silicone-based sealers used during the overhaul. Look for everything to drop next sample, if you're flying often enough to keep corrosion at bay. We suggest keeping the oil changes short until metals improve.

		UNIT / LOCATION AVERAGES							UNIVERSAL AVERAGES
MI/HR ON OIL	27		42	30					
MI/HR ON UNIT	148		72	79					
SAMPLE DATE	06/04/07		02/02/07	06/29/06					
ALUMINUM	8	9	9	9					5
CHROMIUM	18	42	40	69					6
IRON	69	50	40	40					23
COPPER	19	14	13	11					4
LEAD	1719	2206	2885	2014					2484
TIN	4	3	2	2					1
MOLYBDENUM	0	0	0	0					0
NICKEL	2	5	7	6					2
MANGANESE	1	1	0	1					0
SILVER	0	0	0	0					0
TITANIUM	0	0	0	0					0
POTASSIUM	3	1	0	0					0
BORON	0	0	0	0					0
SILICON	26	11	4	4					5
SODIUM	2	1	0	0					0
CALCIUM	9	4	1	2					3
MAGNESIUM	1	1	1	0					0
PHOSPHORUS	58	185	498	0					440
ZINC	17	7	2	1					4
BARIUM	0	0	0	0					0

ELEMENTS IN PARTS PER MILLION

PROPERTIES

TEST	cST VISCOSITY @ 40 ºC	SUS VISCOSITY @ 100 ºF	VISCOSITY INDEX	cST VISCOSITY @ 100 ºC	SUS VISCOSITY @ 210 ºF	FLASHPOINT IN ºF	FUEL %	ANTIFREEZE %	WATER %	INSOLUBLES %
VALUES SHOULD BE					82-105	>440	<1.0		0.0	<0.6
TESTED VALUES WERE					97.5	515	<0.5	-	0.0	0.4

416 EAST PETTIT AVE
FORT WAYNE, IN 46806 (260) 744-2380

LIABILITY LIMITED TO COST OF SAMPLE ANALYSIS