BLACKSTONE LABORATORIES

OIL REPORT

LAB NUMBER: D27174	**UNIT ID:** N3212T
REPORT DATE: 1/4/2008	**CLIENT ID:** 23123
CODE: 41/284	**PAYMENT:** CC: Visa

UNIT

MAKE/MODEL: Lycoming O-320-E2D	OIL TYPE & GRADE: Aeroshell W100 (AD)
FUEL TYPE: Gasoline (Leaded)	OIL USE INTERVAL: 20 Hours
ADDITIONAL INFO: Cessna 177; Eng S/N L-26623-27A, Cyls Overhauled @ 141 engine hours.	

CLIENT

CHARLES MOUNT
1621 HAMPTON PLACE
ORANGE PARK, FL 32003

PHONE: (904) 813-0636
FAX:
ALT PHONE:
EMAIL: chuck@mountpoint.org

COMMENTS

CHARLES: Iron, copper and silicon decreased but chrome increased, which is a bit puzzling. Your info slip noted you don't know what type cylinders you have after they were overhauled. If they are chrome, that might explain this reading. If they're steel, the chrome would be coming from rings and it might be that they have completely seated yet. We suggest you continue to use 20-hour oil change intervals until all of these wear metals settle down to average levels. No fuel or moisture found and oil filtration (see insolubles) was good. We'll know more next sample.

		UNIT / LOCATION AVERAGES						UNIVERSAL AVERAGES
MI/HR on Oil	20		27	42	30			
MI/HR on Unit	216		148	72	79			
Sample Date	12/20/07		06/04/07	02/02/07	06/29/06			
Make Up Oil Added	0 qt		1 qt		2 qts			

ELEMENTS IN PARTS PER MILLION

ALUMINUM	9	9	8	9	9			5
CHROMIUM	38	41	18	40	69			6
IRON	42	48	69	40	40			23
COPPER	10	13	19	13	11			5
LEAD	1573	2048	1719	2885	2014			2503
TIN	1	2	4	2	2			1
MOLYBDENUM	0	0	0	0	0			0
NICKEL	2	4	2	7	6			2
MANGANESE	0	1	1	0	1			0
SILVER	0	0	0	0	0			0
TITANIUM	0	0	0	0	0			0
POTASSIUM	1	1	3	0	0			0
BORON	0	0	0	0	0			0
SILICON	12	12	26	4	4			5
SODIUM	0	1	2	0	0			0
CALCIUM	0	3	9	1	2			3
MAGNESIUM	1	1	1	1	0			0
PHOSPHORUS	0	139	58	498	0			436
ZINC	2	6	17	2	1			4
BARIUM	0	0	0	0	0			0

PROPERTIES

		Values Should Be*					
SUS Viscosity @ 210°F	91.1	86-105	97.5	95.5	79.7		
cSt Viscosity @ 100°C	18.25	17.0-21.8	19.76	19.29	15.44		
Flashpoint in °F	510	>460	515	485	465		
Fuel %	<0.5	<1.0	<0.5	<0.5	<0.5		
Antifreeze %	-		-	-	-		
Water %	0.0	0.0	0.0	0.0	0.0		
Insolubles %	0.4	<0.6	0.4	0.3	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

LIABILITY LIMITED TO COST OF ANALYSIS