



OIL REPORT

LAB NUMBER: N45889
REPORT DATE: 5/26/2021
CODE: 63/68

UNIT ID: N793Y
CLIENT ID:
PAYMENT:

UNIT

MAKE/MODEL: Lycoming O-360-A2G
FUEL TYPE: Gasoline (Leaded)
OIL TYPE & GRADE: Phillips XC (A/C) 20W/50
OIL USE INTERVAL: 56 Hours
ADDITIONAL INFO: Beechcraft Sundowner 180, Chrome cyls, L-25416-36A, M2184, L-13418-36A, New engine

CLIENT

RICH MCCULLOUGH
PARK CITY AVIATION LLC

PHONE:
FAX:
ALT PHONE:
EMAIL:

COMMENTS

RICH: You noted no issues this time, and we're hoping that means compressions are no longer low. Based on what we're seeing in the oil, N793Y's engine is still wearing just as it should. Metals are stable compared to the previous report, and the relatively minor increase in make-up oil isn't likely diluting them significantly. Lead from blow-by is normal for a 55.68-hour run, and all of the oil's physical properties were in spec. Keep up the good work with this aircraft; it's looking good at 838.02 hours SMOH.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	56	UNIT / LOCATION AVERAGES	41	52	53	46	63	UNIVERSAL AVERAGES
	MI/HR on Unit	838		782	741	688	635	589	
	Sample Date	5/11/2021		2/20/2021	11/12/2020	8/25/2020	7/18/2020	5/27/2020	
	Make Up Oil Added	3.5 qts		2 qt	4 qt	5 qt		5 qt	
	ALUMINUM	5	7	5	7	6	8	9	7
	CHROMIUM	6	13	6	7	4	6	5	4
	IRON	37	37	36	39	28	32	33	29
	COPPER	4	8	6	5	4	4	5	8
	LEAD	5191	5513	5414	6034	5476	5415	6154	3484
	TIN	1	1	1	1	1	2	2	1
	MOLYBDENUM	0	0	0	0	0	0	0	0
	NICKEL	5	4	5	4	4	4	4	3
	MANGANESE	0	0	0	0	0	0	0	0
	SILVER	0	0	0	0	0	0	0	0
	TITANIUM	0	0	0	0	0	0	0	0
	POTASSIUM	0	0	0	0	0	0	0	0
	BORON	1	1	1	6	1	3	1	1
	SILICON	4	6	4	3	3	3	3	4
	SODIUM	1	2	2	4	1	2	1	1
	CALCIUM	0	2	1	1	0	1	1	1
	MAGNESIUM	0	0	0	0	0	0	0	0
	PHOSPHORUS	4	245	6	5	3	5	4	397
	ZINC	2	3	2	2	2	4	2	2
	BARIUM	0	0	0	0	0	0	0	0

Values
Should Be*

PROPERTIES	SUS Viscosity @ 210°F	89.4	86-105	86.5	87.2	92.1	94.9	93.6
	cSt Viscosity @ 100°C	17.83	17.0-21.8	17.14	17.29	18.49	19.16	18.85
	Flashpoint in °F	455	430	465	480	455	475	475
	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 %	0.4	0.6	0.5	0.4	0.4	0.3	0.3
	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