

SPECTRUM LABORATORIES INC.

524 Pelham Ave., Piscataway, NJ 08854
732-752-1400 FAX 732-752-6529 www.spectrumschanck@aol.com

Donald Thompson
319 Bryan Rd
Stowe, VT, 05672

AIRCRAFT OIL ANALYSIS
Date of Report:- 8/18/21
PO Job# :-
Invoice # :- 5105

AIRCRAFT "N" NUMBER:-	N971DT
AIRCRAFT MFR and MODEL:- Custom Crafters	Glasair 1-RG
ENGINE MFR and MODEL:-	Lycoming IO360-1BE
CYLINDERS CHROME PLATED?	No
LUBE DESCRIPTION:-	AeroShell W-100 Plus + ASL camguard
Single Grade or Multi Weight:-	50
Hours since last oil change:- 13hrs	Amount of oil added:- 3 qts
Hours since last overhaul 583 hrs	TACH Time:- 583

SPECTROCHEMICAL ANALYSIS-

The following results are reported in parts per million by weight (ppm).

Wear Elements	ppm	Wear Elements	ppm	Wear Elements	ppm	Additives	ppm
Iron	15.9	Aluminum	8.69	Titanium	4.11	Phosphorus*	1494
Chromium	2.80	Copper	0.52	Silicon	5.58	Calcium*	n/a
Nickel	1.23	Tin	0.58			Zinc*	11.5
Vanadium	n/a	Silver	<.1	Sodium	ND	Boron*	0.32
Manganese	n/a	Antimony	n/a	Lead	969	Molybdenum*	0.49
						Magnesium*	0.47

Elements marked (*) are additives and have no bearing on wear characteristics; except when intentionally added. Elements marked (#) are residual; not coincidental to the base oil.

SUMMARY

ADVISORY :- Slight General Wear

Type of Oil	CHECKS OK	Additives	NORMAL
Oil filter/filters	CHECKS OUT	Wear Elements	Fe
Valve Areas	NORMAL WEAR	Wrist Pins/Cam lobes	NORMAL WEAR
Cylinder Areas	NORMAL WEAR	Carb/Fuel Injection	OK
Bearing/Crank Areas	NORMAL WEAR	Exhaust Temperature	NORMAL
Bearing torque/shims	OK	Silicon/Dirt	NORMAL
Air filters/intake manifold	OK	Airborne Dirt	NORMAL
Sufficient Octane/Timing	OK	Shutdown Practice	NORMAL
Oil cooling Efficiency	NORMAL	Oil consumption	NORMAL
Fuel Dilution	<.50	Wiper rings/valve guides	NORMAL WEAR
Lead in Fuel	NORMAL	Viscosity	IN RANGE
Iron Wear	NORMAL	Oil color/oxides	NORMAL PITCH

The samples tested in this report were calibrated by use of:
NIST Conostan S-21
Method:- D 6728
Matrix Method:- Oil

We certify this is a true report of results obtained from our tests of this material. This report shall not be reproduced unless in full.

SPECTRUM-SCHANCK Since 1959

Quality Assurance Inspection System complies with MIL-I-45208, ASTM E548 and ASME Sec III, Par. NCA-3800.

Samples discarded after 7 days.