



Steel Aviation - 53 North Street Ext - Phillipsburg, Ohio 45354 - 937 332 7587

**N65TY**  
TACH: 1641.7

**Continental, IO-550-N27, S/N: 917692**

**January 19, 2024**

1. C/W Annual Inspection in accordance with FAR 43 Appendix D using Cirrus AMM as a guide.
2. Drained oil and serviced. Installed (8) P/N Phillips X/C 20W50 - Oil.
3. Removed and cut open oil filter. No defects noted at this time. Installed P/N AA48108-2 - Oil Filter.
4. Checked Compressions: #1:60/80, #3:68/80, #5:64/80, #2:64/80, #4:66/80, #6:64/80 MO 42.
5. Checked Magneto timing.
6. Removed and replaced Induction air filter Installed P/N 50207-200 - Brackett Replacement Filter Element, BA-24.
7. Removed gascolator and inspected. Installed with new O-ring. Installed P/N MS29513-137 - O-Ring.
8. R/R #3 EGT probe due to clamp failure. Installed P/N 16579-002 - EGT SENSOR, LARGE CLAMP.

I certify that this ENGINE has been inspected in accordance with an (annual) inspection and was determined to be in airworthy condition. Details of work performed are on file with Steel Aviation under work order: WO\_396.

Jeff Pleiman A/P I/A 3304319


Brought Forward

April 4, 2025  
Work Order: CRS10696  
N65TY Cirrus SR22 SN 1452  
Flight: 1688.0  
Engine Log Entry  
CRS # IGXR989E

# HERITAGE AVIATION



- Compression #1 59/80 #2 55/80 #3 60/80 #4 64/80 #5 58/80 #6 60/80 MO 42
- Changed oil filter p/n AA48108-2 and replaced oil w/ Phillips 20/50
- Performed Special Inspection: Next due 500 hours at 2,188.3 hours or 2 years on February 2027, whichever occurs first, inspected brushes, insulator and gear clutch assembly per manufacturer's approved instructions For Continued Airworthiness.
- Inspected engine for security and condition – annual inspection accomplished per CFR14 App D and Cirrus annual checklist 05-20.

I certify that this Engine has been inspected in accordance with an Annual inspection IAW 14CFR 43 Appendix D and Cirrus Annual Checklist and was determined to be in airworthy condition. AD's checked/CW thru issue 2025-06

The Aircraft, Engine, Propeller and/or article identified above was repaired and inspected in accordance with current Federal Aviation Regulations and found airworthy for return to service in respect to the work performed.





# OIL REPORT

LAB NUMBER: 530929  
 REPORT DATE: 11/7/2025  
 CODE: 1438

UNIT ID: N65TY  
 CLIENT ID: 26620  
 PAYMENT: CC Online (Bulk)

UNIT

MAKE/MODEL: Continental IO-550-N27  
 FUEL TYPE: Gasoline (Leaded)  
 ADDITIONAL INFO: Cirrus SR22, SN: 917692, 1452

OIL TYPE & GRADE: Phillips XC (AC) 20W50  
 OIL USE INTERVAL: 71 Hours

CLIENT

KIM DAVIDSON  
 KIM DAVIDSON AVIATION  
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COMMENTS

KIM: The water we noted last time didn't make a reappearance here, so it was probably just some harmless condensation that cleared out with the last oil change. Since there's no water, we were able to test the flashpoint and confirm no measurable fuel dilution is present. Nicot This was the longest run on the page, and it doesn't look like the engine had any trouble - wear metals are all stable or a little lower than before, showing healthy wear for 71.4 hours. Lead (blow-by) also looks fine for the longer run. Keep up the great work with this IO-550.

ELEMENTS IN PARTS PER MILLION

	71	UNIT / LOCATION	47	2	50	13	21	UNIVERSAL AVERAGES
	1,750		1,688	1,642	1,642	1,633	1,616	
Sample Date	10/20/2025	AVG/ASAP	1/22/2025	1/19/2024	12/29/2023	2/20/2023	8/10/2022	
Make Up Oil Added	7 qts				8 qts			
ALUMINUM	8	8	13	9	10	12	19	7
CHROMIUM	5	6	16	5	5	9	10	7
IRON	92	43	161	59	65	92	125	43
COPPER	5	4	5	3	3	4	5	5
LEAD	6500	3975	4601	1941	1853	3073	3481	5010
TIN	1	1	2	1	2	1	1	1
MOLYBDENUM	3	2	4	3	3	4	5	3
NICKEL	10	8	13	6	7	14	12	10
MANGANESE	1	0	1	1	1	1	1	1
SILVER	0	0	0	0	0	0	0	0
TITANIUM	0	0	0	0	0	0	0	0
POTASSIUM	0	1	3	0	0	0	0	1
SODIUM	1	1	1	1	0	1	3	1
SILICON	4	6	5	4	4	6	7	6
SODIUM	2	2	4	2	2	2	2	2
CALCIUM	7	58	22	124	125	136	162	46
MAGNESIUM	0	1	0	1	1	1	1	1
PHOSPHORUS	8	239	21	133	130	115	63	323
ZINC	2	5	3	5	5	3	4	4
BARBIUM	0	0	0	0	0	0	0	0

Values Should Be\*

PROPERTIES

SUS Viscosity @ 210°F	94.5	85-105	89.0	91.3	90.4	91.0	89.5
cSt Viscosity @ 100°C	19.06	17.5-21.8	17.74	18.30	18.07	18.21	17.87
Flashpoint in °F	495	>430	BONL	460	480	465	490
Fuel %	<0.5	<1.0	-	<0.5	<0.5	<0.5	<0.5
AntiFreeze %	-	-	-	-	-	-	-
Water %	0.0	0.0	POS	0.0	0.0	0.0	0.0
Insolubles %	0.5	<0.6	0.2	0.3	0.4	0.5	0.3
TBN							
TAN							
ISO Code							

\* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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