

ENGINE LOG BOOK



Engine Log & Maintenance Record

LOG #: _____

RECORD OF GLASAIR SPORTSMAN GS-2 7481
(MAKE) (MODEL) (SERIAL)

AIRCRAFT REGISTRATION NUMBER: N686D

FROM JUNE 26 2019 TO _____ 20____

DETAILING TIME FROM 0 TO _____
(HOURS) (HOURS)

If used on a multi-engine aircraft: ___Right ___Left ___Front ___Rear

Reciprocating Engine Certificate of Conformance

LYCOMING

This is to certify that the engine as described hereinafter has been manufactured / ground operation tested as prescribed by Lycoming drawing(s), specification(s) and/or other documents detailed within the bills of material. All applicable requirements including Lycoming Service Publications have been complied with at time of manufacture. Refer to enclosed Form ET001 for applicable accessory part numbers and serial numbers.

Part Number YENPL-RT11095
Serial Number EL-881-80E
Engine Model Y10-390-EXP109
Work Order KMR881
Total Time 0

Low Ladem 6/7/19
Authorized Representative Date



Cage Code 1XP50 AS9100 Registered

652 Oliver Street Williamsport, PA 17701 U.S.A.
Lycoming Engines is a division of Avco Corporation

Form 2700 Rev. 05/13

Engine Log

Serial # EC-351-808

Date	Time Run (Hours)	Total Time Since Overhaul	Repairs, Adjustments, Service, Remarks	Signature	Licence #
BROUGHT FORWARD				<i>[Signature]</i>	
06/24/19	0.0	0.0	Installed New on GLASAIR SPORTSMAN G5-2 s/n 7481 N686D	<i>[Signature]</i>	A&P 3738389
7/24/19	10.0	10.0	 Drained oil, replaced oil filter with new CH48110-1, no metal found in old filter. Serviced engine with 6 qts. Philips 20W-50 mineral oil. No leaks found during engine run up. Certificate # <u>3157832</u> Signature <u><i>[Signature]</i></u>		
11/13/19	40.0	40.0	 Drained oil, replaced oil filter with new CH48110-1, no metal found in old filter. Serviced engine with 6 qts. Philips 20W-50 oil. No leaks found during engine run up. Certificate # <u>A&P 3738389</u> Signature <u><i>[Signature]</i></u>		
1/31/20	57.0	57.0	Installed Reiff Hot band cylinders, oil sump AND oil cooler heating system. Updated weight & balance. <u>Reiff Daw A&P 2820087</u>		
5/27/20	70.2	70.2	Cleaned spark plugs and installed new 14mm/18mm adapters. <u>Reiff Daw</u>		A&P 2820087

Page Total: _____

Brought Forward: _____

Total to Date: _____

All repair data must bear the endorsement of a certified mechanic, and his/her rating and certificate number MUST be shown.

Engine Log

Serial # EL-981-80E

Date	Time Run (Hours)	Total Time Since Overhaul	Repairs, Adjustments, Service, Remarks	Signature	Licence #
BROUGHT FORWARD					
6/6/20	71.1	71.1	Performed compression check #1 76/80, #2 74/80, #3 75/80, #4 72/80 changed oil & filter. Added 6 qts Phillips 66XC 20W50 with CAMGUARD AND oil filter with new CHAMPION CH48110-1. Oil sample & filter sent for evaluation. <u>Radney Davis A&P 2820087</u>		
6/22/21	110.7	110.7	Performed compression check #1 75/80, #2 73/80, #3 74/80, #4 73/80 changed oil & filter. Added 6 qts Phillips 66XC 20W50 with CAMGUARD and oil filter with new Champion CH48110-1. Oil sample & filter sent for evaluation. Replaced all spark plugs with DENSO IKH27. <u>Radney Davis A&P 2820087</u>		
12/2/21	136.5	136.5	Drained oil, replaced filter with new Champion CH48110-1. Oil sample & filter sent for evaluation. Serviced with 6 qts Philips 20W-50 with CAMGUARD. NO leaks found during engine run-up. <u>Radney Davis A&P 2820087</u>		

Page Total: _____

Brought Forward: _____

Total to Date: _____

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Engine Log

Serial # EL-881-8

Date	TACH Time Run (Hours)	TACH Total Time Since Overhaul	Repairs, Adjustments, Service, Remarks	Signature	Licence
BROUGHT FORWARD					
5/15/22	150.7	150.7	Reamed No. 2 exhaust valve guide per Lycoming Service Instruction No. 1425 A. RAN engine, no leaks found. <i>[Signature]</i> A&P 2820087		
5/16/22	168.3	168.3	DRAINED oil, replaced filter with new Champion CH48110-1. oil sample & filter sent out for evaluation. Serviced with 7 qts Philips 20W-50 with Camguard. No leaks found during engine runs. <i>[Signature]</i> A&P 2820087		
7/10/22	169.1	169.1	performed compression check #1 72/80, #2 72/80, #3 72/80, #4 72/80. Replaced all spark plugs with Denso ICH27. <i>[Signature]</i> A&P 2820087		
7/15/22	201.5	201.5	DRAINED oil, replaced filter with new Champion CH48110-1. oil sample & filter sent out for evaluation. Serviced with 7 qts Philips 20W-50 with Camguard. No leaks found during engine runs. <i>[Signature]</i> A&P 2820087		

Page Total: _____

Brought Forward: _____

Total to Date: _____

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Engine Log

Serial # E2-881-80E

Date	Time Run (Hours)	Total Time Since Overhaul	Repairs, Adjustments, Service, Remarks	Signature	Licence #
BROUGHT FORWARD					
8/21/24	222.2	222.2	Performed compression check #1 70/80 #2 70/80 #3 70/80 #4 70/80 Replaced spark plugs with DENSO IKH27. Drained oil replaced filter with new CHAMPION CH481101. Oil sample sent out for evaluation Serviced with 7 qts of Philips 20W-50 with CAMGUARD no leaks found during engine run <i>[Signature]</i> AEP 2820087		

Connell Flying Service
 1705 State Hwy 9
 Decorah Municipal Airport
 Decorah, Iowa 52101

Aircraft: N686D Date: 2/24/2025 TACH: 260.1 SMOH: 260.1

Comp 1) 79/80 2) 79/80 3) 78/80 4) 75/80. Replaced Denso IKH27 Spark Plugs. Removed
 Replaced 1) Tempest AA48110-2 Oil Filter with 7qts 20w-50 x/c & 1pt Camguard. Inspected
 Exhaust & Engine Mount – OK. Serviced fuel injector nozzles. Test Ran – OK.

I certify that this aircraft has been inspected in accordance with the scope and detail of CFR
 Part 43, appendix D, and was found to be in a condition for safe operation.

[Signature]
 Michael J Connell – A&P3464399

ENGINE LOG ENTRY FOR N686D

DATE: 09-25-25 TACH: 281.2

Remove propeller and install new crankshaft seal P/N LW-15628. Reinstall propeller.

Signed: *[Signature]*
 AP31232761A

Johnson Bros. Flying Service E2525 Co Hwy JJ, Spring Green, WI 53588 Tri-County Regional Airport (LNR) (608)341-8030

Page To

Brought Forward: _____

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Engine Log

Serial # EL-881-80E

Tach Tach

Date	Time Run (Hours)	Total Time Since Overhaul	Repairs, Adjustments, Service, Remarks	Signature	Licence #
BROUGHT FORWARD					
11/9/25	297.5	297.5	Reamed #3 exhaust valve guide per Lycoming SI 1425A. Test ran Engine, all appeared Normal.	<i>[Signature]</i>	3507502
11/8/25	303.5	303.5	Drained oil, Replaced Filter w/ new Champion CH48110-1. Serviced w/ 6qts Phillips 20W50XC and 10oz Cambuard.	<i>[Signature]</i>	3507502
2/13/26	313.8	313.8	#4 cyl induction leak. Replaced all intake seals (P/N 77569) and baskets (P/N 71973). Replaced All Exhaust gaskets (P/N 77611). Inspected For leaks - None Found.	<i>[Signature]</i>	3507502
3/8/26	315.9	315.9	CONDITION INSPECTION COMPRESSION CHECK #1 78/80 #2 76/80 #3 80/80 #4 74/80 ROBEV, OSCULATOR INSPECTED OIL FILTER SCREEN REMOVED SAFETY: REMOVED/INSPECTED BOAST PUMP FUEL SCREEN SAFETY FILTRATED RETURN LINE HOSES. ADDED SAFETY WIRE ON BOAST BUFFER. INSPECTED EXHAUST - SATISFACTORY		
<p>DATE 3/8/26 TTE 315.9 TTA 316.9 I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IAW SCOPE/DETAIL OF APPDX D PART 43 & FOUND TO BE CONDITION FOR SAFE OPERATION</p> <p><i>[Signature]</i> AP#2824451 3/8/26</p>					
3/13/26	316.4	316.4	Replaced all Spark Plugs w/ Denso IKH27	<i>[Signature]</i>	3507502

ENGINE LOG ENTRY FOR N686D

DATE: 06-04-26 TACH: 329

Drain oil and service with 6 quarts of Phillips 20W50 XC and 10 oz. Of Camguard. Install new oil filter P/N CH48110-1. Inspect oil suction screen and cut and inspect removed oil filter, no metal noted for either.

Signed: *[Signature]*
AP31232761A

Johnson Bros. Flying Service E2525 Co Hwy JJ, Spring Green, WI 53588 Tri-County Regional Airport (LNR) (608)341-8030

Page

Brought Forward: _____

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Total to Date: _____