

THE **adlog**TM AIRCRAFT
MAINTENANCE
RECORDKEEPING
SYSTEM

**ENGINE
MAINTENANCE
RECORDS**



ENGINE MAINTENANCE RECORDS

Log No. _____

Aircraft Registration No. N9646Q

Engine Manufacturer Lycoming

Model O320-B2D

Serial No. L-42008-27A

Date installed on aircraft 09 February 2016

Time Between Overhauls (TBO) 2000 Hours

If used on multi-engine aircraft:

- | | |
|--------------------------------|-------------------------------|
| ☐ Right | ☐ Left |
| ☐ Front | ☐ Rear |



(All applicable information must be filled in)

AEROTECH PUBLICATIONS INC.

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DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page
1. Approving Civil Aviation Authority/Country: FAA/United States 2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG 3. Form Tracking Number: Invoice #9206				
4. Organization Name and Address: Signature Engines, Inc., 4760 Airport Road, Cincinnati, Ohio 45226				5. Work Order/Contract/Invoice Number: E6708
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number: 11. Status/Work:
1	Lycoming Engine	O-320-E2D	1	L-42008-27A Overhauled
12. Remarks: THIS ENGINE HAS BEEN OVERHAULED IN ACCORDANCE WITH THE APPLICABLE LYCOMING MANUALS. A LIST OF ALL PARTS, F.A.A. AIRWORTHINESS DIRECTIVES AND MANUFACTURER'S SERVICE BULLETINS COMPLIED WITH ARE A PART OF THESE RECORDS. ALL PARTS HAVE BEEN INSPECTED AND HAVE BEEN DETERMINED AIRWORTHY TO RETURN TO SERVICE. ENGINE TEST RUN PER OVERHAUL MANUAL. TEST SHEET FURNISHED. THIS ENGINE IS AIRWORTHY FOR RETURNED TO SERVICE. PARTS AND ACCESSORIES REPLACED: 4 New Superior Millennium Cylinders 2 New Slick Magnets 1 New Harness 1 Overhauled Carburetor 1 New Set of Spark Plugs T.T.S.N.: 6040.0 Est. Hours T.S.M.O.H.: 0.0 Hours				
13a. Certifies the items identified above were manufactured in conformity to: ☐ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 12.				
14a. ☒ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 12 Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.				
13b. Authorized Signature:		13c. Approval/Authorization No.:		14b. Authorized Signature:
13d. Name (Typed or Printed):		13e. Date (dd/mm/yyyy):		14c. Approval/Certificate No.:
		14d. Name (Typed or Printed): Terrence McRoberts, Inspector		14e. Date (dd/mm/yyyy): 16/Dec/2015
User/Installer Responsibilities				
It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1. Statements in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.				
FAA Form 8130-3 (02-14) NSN: 0052-00-012-9005				
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DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
	Unknown	Ø	A973.3	TOTALS brought forward from previous page
9 February 2016				Installed engine in Cessna 172M/17268730 N9646Q. Installed w/ new 94011-20 Berg Motors, and new ballb. seal. Ballb. repaired as required. Complete new exhaust installed— risers, muffler, clamps, shroud, hardware all supplied by Aerospace Welding Minneapolis. Serviced engine w/ A/S 65 Mineral Oil. Engine checks & break-in flight satisfactory. & Certify this Engine has been inspected in accordance with a 100-hr inspection and is in an Airworthy condition at this time. [Redacted] AIP, [Redacted] IA
23 February 2016			Tach 4992.3 / SMOH 19.0	Changed oil & filter— installed AA 48110-2 & 8 qts 15W50 A/S. Runup & leak ck satisfactory. [Redacted] AIP, [Redacted] IA
27 April 2016			Tach 3073.6 / SMOH 100.3	100-hr inspection completed this date. Runup & systems checks satisfactory. & Certify this engine has been inspected in accordance with a 100-hr inspection and is in an Airworthy condition at this time. [Redacted] AIP, [Redacted] IA
18 May 2016			Tach 5090.6 / SMOH 172.3	Changed oil & filter. AA 48110-2 & 8 qts 15W50 A/S. Runup & leak ck satisfactory. [Redacted] AIP, [Redacted] IA
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7 June 1966	5138.6	Tach/1751.3	SMOH	TOTALS brought forward from previous page Changed oil & filter. Installed 8 qts 15W50 AHS & AA48110-2. Leak ok satisfactory. [Redacted] ACP [Redacted] 2A
25 June 2016	5176.8	Tach/213.5	SMOH	100-hr inspection completed this date. Changed oil & filter - 8 qts 15W50 AHS & AA48110-2 filter. Cleaned & rotated spark plugs. Inspected muffler & exhaust system. Runup & systems checks satisfactory. I Certify this engine has been inspected in accordance with an Annual Inspection and is in an airworthy condition at this time. [Redacted] ACP [Redacted] 2A
27 August 2016	Tach 5245			Changed oil & filter. Installed AA48110-2 & 8 qts 15W50 AHS. Leak ok satisfactory. [Redacted] ACP [Redacted] 2A
15 September 2016	Tach 5272.9	SMOH 299.6	TRE 6339.6	(Estimated per overhaul entry by E.S. 7R3164). 100-hr inspection completed this date. Changed oil & filter - installed 8 qts 15W50 AHS & AA48110-2 filter. Removed one washer from oil pressure regulator. Cleaned & rotated spark plugs. Compression - Hot/80: 1) 77 2) 77 3) 78 4) 77. Replaced induction air element. Inspected muffler & exhaust system. Runup & leak ok satisfactory. I Certify this engine has been inspected in accordance with a 100-hr inspection and is in an Airworthy Condition at this time. [Redacted] ACP [Redacted] 2A
				SUB-TOTALS this page
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13 November 2016			Tach 5355.1	Change oil & filter, installed 8 qts 15W50 & AA48110-2 Filter. Leak check satisfactory. [Redacted] AEP [Redacted]
09 December 2016			Tach 5375.6 / SMOH 402.3 / 6442.3 TTE	100-hr inspection completed this date. Compression - Warm/80: 1) 77 2) 78 3) 78 4) 77. Replaced induction air element. Repaired wiring @ fan's heater plug. Inspected muffler & exhaust system. Runup & leak ck satisfactory. I certify this engine has been inspected in accordance with a 100-hour inspection and is in an Airworthy condition at this time. [Redacted] AEP [Redacted]
06 March 2017			5435.8 Tach / 462.5 / SMOH / 6502.5 TTE	Annual Inspection completed this date. Compression - Warm/80: 1) 77 2) 77 3) 77 4) 76. Cleaned & rotated spark plugs. Inspected muffler & exhaust system. Verified engine control travels. Op ck & leak cks satisfactory. Oil & filter changed - AA48110-2 & 8 qts 15W50 A/S. I certify this engine has been inspected in accordance with an Annual Inspection and it is in an Airworthy Condition at this time. [Redacted] AEP [Redacted] BA
17 April 2017			5468.2 Tach	Change oil & filter - 8 qts 15W50 A/S & AA48110-2 Filter. Cleaned & replaced lower spark plugs. Runup & leak ck satisfactory. [Redacted] AEP [Redacted] BA
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20 June 2017/5538.8				100-hr inspection completed this date. Compression - Cool/50: 1) 76 2) 77 3) 77 4) 76. Cleaned & rotated spark plugs. Changed oil & filter - 8 qts 15W50 M1 & AA48110-2 filter. Inspected muffler & exhaust system. Repositioned & changed carb heat muff. Dressed & painted prop. Runup & leak ok satisfactorily. I Certify this engine has been inspected in accordance with a 100-hr inspection and is in an Airworthy Condition at this time. [Redacted] ACP [Redacted] 8A
10 September 2017/5639.0				100-hr inspection completed this date. Compression - Warm/80: 1) 77 2) 77 3) 76 4) 76. Cleaned & rotated spark plugs. Changed oil & filter - 8 qts 15W50 M1 & AA48110-2 filter. Inspected muffler & exhaust system. Adjusted idle mixture 1/2 turn richer. Runup & functional checks satisfactory. I Certify this engine has been inspected in accordance with a 100-hr inspection and is in an Airworthy Condition at this time. [Redacted] ACP [Redacted] 8A
22 November 2017/5739.0				Tach. 100-hr inspection completed this date. Compression - Warm/50: 1) 76 2) 77 3) 77 4) 76. Cleaned & rotated spark plugs. Changed oil & filter - AA48110-2 & 8 qts 15W50 M1s. Inspected muffler & exhaust system. Replaced #2 71973 induction gasket. Runup & functional checks satisfactory. I Certify this engine has been inspected in accordance with a 100-hr inspection and is in an Airworthy Condition at this time. [Redacted] ACP [Redacted] 8A
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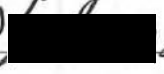
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				TOTALS brought forward from previous page
27 December 2017			5795.8 Tach.	Changed oil & filter. Installed 8 qts 15W50 A/S & AA48110-2 filter. [Redacted] ASP [Redacted] IA
08 February 2018			5855.5 Tach / 582.2 SMOD	Annual Inspection completed this date. Compression Wam/so: 1) 76 2) 76 3) 77 4) 76. Cleaned & rotated spark plugs. Changed oil & filter - 8 qts 15W50 A/S & AA48110-2. Cleaned primer nozzles. Checked muffler & exhaust system. Runup & leak ok satisfactory. 2. Certify this engine has been inspected in accordance with an Annual Inspection and is in an Airworthy Condition at this time. [Redacted] ASP [Redacted] IA
13 March 2018			5941.3 Tach	Changed oil & filter. 8 qts 15W50 A/S & AA48110-2 filter. Cleaned & rotated lower spark plugs. [Redacted] ASP [Redacted] IA
19 March 2018			5958.5 Tach / 955.0 SMOD	100-hr inspection completed this date. Compression/Wam/so: 1) 75 2) 76 3) 76 4) 76. Checked control levers. Dressed & painted prop. Runup & leak ok satisfactory. [Redacted] ASP [Redacted] IA
20 April 2018			5998.2 Tach	Changed oil & filter - AA48110-2 & 8 qts 15W50 A/S. Leak ok satisfactory. [Redacted] ASP [Redacted] IA
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06 Sept 2018			6276.4	TOTALS brought forward from previous page
				1303.1 SMOH / 100 hr inspection completed this date. Compression 1st/80 176, 2) 77, 3) 77, 4) 77. Dressed & painted propeller, cleaned & rotated spark plugs. Changed oil & filter. Sgt 15WSD A/S & AA 48110-2 filter. Runup & leak ok satisfactory. I certify this engine has been inspected in accordance with a 100-hr inspection and is in an airworthy condition at this time.
				ASP [redacted] AA [redacted]
26 October 2018			6368.9	Tach. Changed oil & filter. Sgt 15WSD A/S & AA 48110-2 filter. Leak ok satisfactory.
				ASP [redacted] AA [redacted]
05 November 2018			6383.4	Tach / 1410.1 SMOH. 100-hr inspection completed this date. Compression - Warm/80: 1) 76 2) 77 3) 76 4) 76. Cleaned & rotated spark plugs. Adjusted idle up 3 flats (1/2 turn). Added 1 qt 15WSD A/S. Runup satisfactory. I certify this engine has been inspected in accordance with a 100-hr inspection and is in an airworthy condition at this time.
				ASP [redacted] AA [redacted]
07 December 2018			6443.6	Tach. Changed oil & filter - Sgt 15WSD A/S & AA 48110-2.
				ASP [redacted] AA [redacted]
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10 January 2019				Tach 6485.5 / 1512.2 SMOH. Annual Inspection completed this date. Compression - Warm/80: 1) 76 2) 77 3) 77 4) 76. Cleaned & rotated spark plugs. Changed oil & filter AA48110-2 & 8 qts 15W50 oil. Replaced induction air element. Dressed & painted prop. Runge & leak ok satisfactory. I Certify this Engine has been inspected in accordance with an Annual Inspection and is in an Annually Condition at this time. AP [Signature] SA
30 March 2019				Tach 6601.7 / 1628.4 SMOH. 100-Hour Inspection completed this date. Compression - Warm/80: 1) 76 2) 76 3) 77 4) 76. Cleaned & rotated spark plugs. Changed oil & filter - 8 qts 15W50 oil & AA48110-2. Replaced alt belt wire. Dressed & painted prop. Runge & leak ok satisfactory. I Certify this Engine has been inspected in accordance with an Annual 100 hour inspection and is in an Annually Condition at this time. AP [Signature] SA
30 April 2019				Tach 6673.6 Changed oil & filter 8 qts 15W50 oil & AA48110-2. Runge & leak ok satisfactory. AP [Signature] SA
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16 May 2019			Tach 6704 / 1730.7 SMUH.	100-hr inspection completed this date. Compression - 100/80: 1) 76 2) 77 3) 76 4) 76. Cleaned & rotated spark plugs. Added 8 qts 15W50 A/S. Fuel screens were clean. Cleaned engine & engine compartment. Runup & leak ok satisfactory. I Certify this engine has been inspected in accordance with a 100-hr inspection and is in an Airworthy Condition at this time. [Signature] ASP [Signature] SA
02 July 2019			Tach 6763.5	Oil & filter change. 8 qts 15W50 A/S & AA48110-200. Leak ok satisfactory. [Signature] ASP [Signature] SA
15 July 2019			Tach 6796.2 / 1822.9 SMUH.	100-hr inspection completed this date. Compression / 100/80: 1) 76 2) 76 3) 78 4) 77. Fuel screens were clean. Verified engine control tracts. Inspected muffler & exhaust system. Runup & leak ok satisfactory. I Certify this engine has been inspected in accordance with a 100-hr inspection and is in an Airworthy Condition at this time. [Signature] ASP [Signature] SA
01 August 2019			Tach 6842.	Oil & filter changed this date. 8 qts 15W50 A/S & AA48110A. Leak ok satisfactory. [Signature] ASP [Signature] SA
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16 August 2019				Tach 6889.6 / 1916.3 SMOH. 100-hr inspection completed this date. Compression / in/out/so: 1) 75 2) 75 3) 74 4) 77. Changed oil & filter - 8 qts 15W50 A/S & AA48110-2. Filter. Inspected muffler & exhaust system. Cleaned & rotated plugs. Verified control travels. Rump & leak ck satisfactory. I Certify this engine has been inspected in accordance with an 100-hr inspection and is in an Airworthy condition at this time. [Signature] AsP [Signature] EA
6 September 2019				Tach 6948.9 Changed oil & filter. 8 qts 15W50 A/S & AA48110-2. Cleaned & rotated lower spark plugs. Repaired carb heat shroud. [Signature] AsP [Signature] EA
19 September 2019				Tach 6979.2 / 2005.9 SMOH. Annual/100-hr inspection completed this date. Compression / in/out/so: 1) 75 2) 76 3) 74 4) 76. Changed oil & filter - 8 qts 15W50 A/S & AA48110-2. Installed 8 new WREMBSE spark plugs. Repositioned carb heat shroud. Rump & systems checks satisfactory. I Certify this engine has been inspected in accordance with an Annual inspection and is in an Airworthy Condition at this time. [Signature] AsP [Signature] EA
17 October 2019				Tach 7034.2 Changed oil & filter. 8 qts 15W50 A/S & 48110 A. Replaced #2 induction gasket. [Signature] AsP [Signature] EA
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01 November 2019				Tach / 7084.8 2 M.S. SA104 Compressions - Wpm/80: 1) 75 2) 75 3) 74 4) 75 Changed oil & filter - AA48110-2 & 8 qts 15W50 AIs. Cleaned & retorted spark plugs. Verified engine control travels. Secured carb heat muff. Runup; leak ck satisfactory. <i>I</i> Certify this engine has been inspected in accordance with a 100-hour inspection and is in an <i>airworthy</i> condition at this time. 
03 December 2019				Tach 7157.1 Changed oil & filter. Added 8 qts 15W50 AIs & AA48110-2 filter. Secured carb heat shroud. Cleaned lower spark plugs.  <i>As P.</i>  <i>SA</i>
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