

**N5526M CURRENT ENGINE
LOGBOOK**

**ENGINE LOG
EF5-1**

ENGINE DESCRIPTION

100/100LL
MINIMUM OCTANE

MANUFACTURER LYCOMING MODEL O-320 E2A

SERIAL NUMBER L-1796-27A DATE OF MANUFACTURE _____

RATED BHP 150/160 RPM 2700 MANIFOLD PRESSURE _____

FUEL REQUIRED OCTANE/PERFORMANCE 80/87

REGISTERED OWNER _____

STREET & NO. _____

CITY, STATE, ZIP _____

REGISTERED OWNER _____

STREET & NO. _____

CITY, STATE, ZIP _____

AIRWORTHINESS DIRECTIVE / FACTORY BULLETIN COMPLIANCE RECORD

[illegible]

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
9-1-06	TACH	0960.3 TSMOH "O"; ENGINE REINSTALLED AFTER MAJOR OVERHAUL. ALL PARTS REQUIRED FOR REPLACEMENT PER LYCOMING SB240S. NEW CAMSHAFT INSTALLED. NEW PISTONS INSTALLED. MAGNETOS, CARBURETOR, VACUUM PUMP OVERHAULD. ENGINE GROUND RAN FOR 2 hours. ENGINE APPROVED FOR SERVICE. END— Gerry Mosley AP2731840 IA
10-1-06	TACH	TSMOH 4.0; I CERTIFY THIS ENGINE HAS BEEN INSPECTED IAW AN ANNUAL INSPECTION per Lycoming SERVICE MANUAL AND AC43.13 AND IS APPROVED FOR RTS. END— GERRY MOSLEY AP2731840 IA THIS ENGINE WAS FOUND TO BE AIRWORTHY AT ABOVE ANNUAL INSPECTION. Gerry Mosley AP2731840 IA
10-1-06	TTSN 3019.30	TSMOH 0 current Tach 0960.3 Gerry Mosley AP2731840 IA

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO
4-6-07	TACH 1010.0	DRAINED OIL, REMOVED OIL FILTER AND INSPECTED - NO METAL FOUND; SERVICED WITH 7 QTS AEROSHELL W100 AND 48110 FILTER. LEAK OK - END
		GERRY MOSLEY AP 27318401A
5-18-2008, Tach 1145.8; Hobbs 0151.1; TTSN 3218.9; TSMOH 0199.6; Drained oil, removed and inspected filter (no metal); cleaned sparkplugs, compression reference 80psi 1/73 2/74 3/74 4/75; serviced with 7 qts Aeroshell W100 and 48110 filter, drained carb and cleaned gascolator. No AD's this period. I certify this engine was inspected IAW an Annual Inspection and found airworthy at time of inspection. END-- Gerry Mosley AP27318401A		

Eng TT 3471.74
Eng TSMO 438.2A

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO
	TACH 1398.64	NOV 6, 2009 DRAINED ENGINE OIL, INSPECTED FILTER, NO METAL NOTED, INSPECTED SECTION PICKUP SCREEN, NO METAL NOTED. PERFORMED DIFFERENTIAL COMPRESSION CHECK #1 24/80 - FACTORY NEW LYCOMING CYLINDER INSTALLED THEN 74/80 #2 68/80 #3 72/80 #4 74/80. CLEANED GAPPED & TESTED PLUGS. PERFORMED 500 HR INSPECTION ON BOTH MAGS, RESET INTERNAL TIMING & TIMED BOTH TO 25° BTDC. INSTALLED A NEW SICKMUTH IGNITION HARNESS. PUSHRODS IN #1 WERE REPAIRED WITH REA 15F1957-14 TO PROVIDE FOR PROPER LIFTER DEFLECTED CLEARANCE. DURING INSPECTION IT WAS FOUND THAT THE ENGINE HAD BEEN MODIFIED WITH HIGH COMPRESSION PISTONS. STC'S SARTOGSW-D & STC SE8987SW-D WERE PURCHASED FROM RAM AIRCRAFT LTD PARTNERSHIP. THE ENGINE WAS ADJUSTED FOR CONFORMITY 1) 75089 HIGH COMPRESSION PISTONS INSTALLED. 2) 14077 OR 78 PINS INSTALLED 3) 74241 RINGS INSTALLED 4) NITRIDED CYLINDERS INSTALLED 5) CORRECT INTAKE & EXH. ROCKER CONFIGURATIONS C) LW-13659 CARB 7) LW-15472 FUEL PUMP WITH SHROUD 8) CRANKSHAFT IS MARKED P.I.D. FOR CONFORMITY TO AD 98-CR-08 AMN 39-10291 ENGINES 160 HP & ABOVE. THE ENGINE MEETS ALL REQUIREMENTS FOR STC'D CONVERSION TO 160 HP. SUPPLEMENTAL DATA PLATE 1605-3 WAS INSTALLED LIMITING FUEL TO 100/100LL MINIMUM OBTAIN AN INDICATING MAX CON POWER OF 160 HP. THE CARB FLOAT CHAMBER WAS DRAINED. A NEW CHARLID FILTER WAS INSTALLED AND THE PUMP WAS SERVICED WITH 8 QTS AEROSHELL 100 MINERAL

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
4-2-10	496.6	Drained oil, inspect filter, install new filter, + 8 qts. Aero Shell 100W. No metal found in old filter. Clean motor RAN OK for LEAKS - NONE found. ✓ 68-0239659
<p align="center">JACOBS AIRCRAFT COMPANY / JACKSON, MS. 530 TERMINAL DRIVE 39209 / 601 948 1601</p> <hr/> <p align="center">N5526M ENGINE LOGBOOK ENTRY 3-18-10 TACH TIME 1441.02 ENGINE TOTAL TIME 3487.12 ENGINE TOTAL TIME SINCE O/H 453.72</p> <p>Oil filter inspected, no metal found. New oil filter installed. Checked compression: (1) 73/80 (2) 74/80 (3) 68/80 (4) 74/80. Serviced engine with 8qts. Aeroshell W100 oil. Replaced Brackett Air Filter element. Replaced oil cooler hoses per AD 95-26-13 (b), (1) & (2). Retimed left mag. Installed overhauled muffler, P/N 99482-00 Cleaned and gapped spark plugs. Engine washed and ground run, operational check OK, no leaks noted.</p> <p>I certify that this ENGINE has been inspected in accordance with an ANNUAL INSPECTION and found to be in airworthy condition.</p> <p>David Townes Cox IA 2679578 <i>David Townes Cox</i></p>		

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
4-2-2012	1467.00	Performed Compression Test #1 $75/80$; #2 $79/80$; #3 $75/80$; #4 $76/80$; This Engine Has been Inspected & Taken Air Pressure TSOH: 506.65 / Inspection and Approval For Return to Service. for km 12 AIP 427060724 IA
4-3-12		DRAINED OIL, Removed Filter, Cut open & Inspected for metal, (NONE FOUND) Replenished oil & Put new Filter on RAN + CK FOR LEAKS NONE FOUND
5-14-13	1476.96	Performed Compression Test #1 $75/80$ #2 $79/80$ #3 $79/80$ #4 $80/80$ This Engine Has been Inspected & Taken Air Pressure TSOH: 516.67 / Inspection and Approval For Return to Service. for km 13 AIP 427060724 IA

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
10-5-2020	550.8	#365 Cleaned and installed plugs, Replaced oil cooler hoses per AD 95-26-13 (b) 1+2 due over 8 years Replaced Vacuum pump, Oil filter inspected No metal found. Installed new Oil filter and serviced with 7qts. Aero Shell 100 oil. Replaced Brinkett Air filter. Checked Compression ① 74/90 ② 73/80 ③ 74/80 ④ 72/80 I certify that this Engine has been inspected in accordance with a 12 Hour inspection and found to be Airworthy James M. Tino AIP 3232270


DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
3/23/2021		This Engine - Has been Inspected On T.S.O.H: 350.8 / According with An Annual Inspection and is Approved for Return to Service for Inst B A&P 427060724 PK
<p>→ HAWKINS JET CENTER →</p> <p>JACKSON, MISSISSIPPI</p>		
N5526M	Date 08/17/2021	Tach 1521.27
<p>Changed oil and filter. Cut old filter open and inspected. No metal found. Serviced engine with 8 qt of W100. Washed and grd. ran engine. No leaks noted. Remove old mixture cable and install new McFarlane MC600-72 mixture cable. Ops check full travel of the carburetor mixture arm good.</p>		
Robert C Davis A&P 3858976	Robert C Davis	

DATE	HAWKINS JET CENTER		
	JACKSON, MISSISSIPPI		
N 5526M	Date 07-19-2021	Tach. 1502.81	
Replace exhaust manifold studs on cyl. #2 and #3 with new p/n-07-03183, and p/n-08-11722. Replace all exhaust gaskets with new p/n-77611. Replace tail pipe pin clamp with new p/n-A14235-00. Remove cyl. #3 bottom spark plug and install heli-coil.			
Robert C. Davis A&P 3858976	<i>Robert C. Davis</i>		
HAWKINS JET CENTER		HAWKINS JET CENTER	
JACKSON, MISSISSIPPI		JACKSON, MISSISSIPPI	
N5526M	Date 9-2-2021	Tach. 1535.76	Hm 632.5
C/W 500hr inspection on lt magneto. Replaced contact points and condensor. Operational check OK.			
Sheldon A Burgess A&P 2159379	<i>Sheldon A Burgess</i>		

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO
		→ HAWKINS JET CENTER → JACKSON, MISSISSIPPI
	N5526M	Date 11-12-2021 Tach. 1576.5
		Removed L/H magneto and replaced gasket with new P/N SL12681 superior gasket. Reinstalled mag and ops check OK. Wash and grd run engine. No leaks noted at this time.
		Robert C Davis A&P 3858976 <i>Robert C Davis</i>
12/4/21		<i>Replace the spinner on front with new</i>

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO										
		 Southern Aircraft Services, L.L.C. 4041 Chuck Yeager Ave. • Baton Rouge, Louisiana 70807 Office (225) 354-1689 • Fax (225) 354-7950										
		N5526M ENGINE LOG ENTRY 07/05/2022 PAGE 1 OF 1 LYC O-320E2A S/N L-17961-27A TTSN: 3650.1 TSOH: 630.8 TACH: 1591.1										
		1. C/W 100 Hr. inspection IAW Piper inspection guide and FAR43 Appendix D. 2. Drained Oil and removed oil filter. Cut oil filter and check for wear metal with none found at this time. Installed new CH48110-2 oil filter and serviced with 7 QTS Aeroshell W100 oil. Cleaned engine and ground run with no discrepancies noted. 3. Check magneto timing to be 25 degrees BTC 4. C/W Cylinder compression check as follows <table border="1" data-bbox="1819 512 2310 559"> <thead> <tr> <th>CYL #</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> </tr> </thead> <tbody> <tr> <td>PSI</td> <td>76/80</td> <td>56/80</td> <td>64/80</td> <td>70/80</td> </tr> </tbody> </table>	CYL #	1	2	3	4	PSI	76/80	56/80	64/80	70/80
CYL #	1	2	3	4								
PSI	76/80	56/80	64/80	70/80								
		5. Removed spark plugs and replaced with new UREM40E x 8 spark plugs. Reinstalled spark plugs and torqued. 6. Inspected induction air filter no discrepancies found. Next due replacement @ 1978.2 HRS TACH. 7. Removed exhaust system and gained access to #2 & #3 cylinders to resurface exhaust flanges. Removed exhaust studs and resurfaced exhaust flanges. Reinstalled exhaust studs and installed exhaust system using new Gaskets P/N 77611 x 4 and STD-1410 exhaust nuts. Replaced rocker cover gaskets with new AEL75906 x 2 gaskets. 8. Reset tension on alternator belt and safety. 9. Cleaned engine and ground run with no discrepancies noted.										
		I CERTIFY THAT THE ABOVE MAINTENANCE AND/OR ALTERATION DESCRIBED ABOVE WAS ACCOMPLISHED IN ACCORDANCE WITH THE REQUIREMENTS OF 14CFR43, AND WITH RESPECT TO THE WORK PERFORMED IS AIRWORTHY AND APPROVED FOR RETURN TO SERVICE. DETAILS ON FILE WITH THIS AGENCY UNDER WORK ORDER # 101918										
		DATE <u>04/05/22</u> AUTHORIZED SIGNATURE <u><i>Cedric C Palm</i></u> CEDRIC C PALM IA / A&P # 2690573										

INSPECTION & MAINTENANCE RECORD

DATE TOTAL INSPECTION OR MAINTENANCE PERFORMED

Make:	Lycoming		Reg No.:	N5526M
Model:	O-320-E2A		Date:	11/10/2022
Serial No.:	L-17961-27A		W/O No.:	1904
AFTT:	3651.14		Tach:	1592.14
		TSMOH:	631.84	

Description of Work Accomplished.

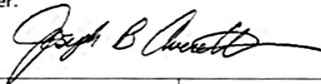
Work Completed:

* Installed Overhauled Carb P/N: 10-5135 S/N: MS0YYY11. Adjusted per MM. Ops Check OK.

Approval for Return to Service

The article identified above was repaired and inspected in accordance with current FAA regulations and was found to be airworthy and is approved for return to service. Pertinent details of the work performed are on file at this agency under this work order.

Authorized Signature



Joseph B Averett 2740243 IA/AP

Hancock Aviation LLC
4409 Chuck Yeager Avenue
Baton Rouge, LA 70807

Phone: (225) 800-2359 Fax: (225) 224-6211
Email: info@hancockaviation.com
Web: www.hancockaviation.com

Make:	Lycoming		Reg No.:	N5526M
Model:	O-320-E2A		Date:	9/15/2023
Serial No.:	L-17961-27A		W/O No.:	2216
AFTT:	3657.98	ENGINE MAINTENANCE ENTRY	Tach:	1598.98
		TSMOH:	638.68	

Description of Work Accomplished.

Work Completed:

- * Completed Hot Compression Check as follows: #1= 78/80 #2= 76/80 #3= 70/80 #4= 74/80
- * Completed Oil & Filter Change. Installed new filter P/N: CH48110-1. Serviced engine with Phillips X/C 20W50. Sent Oil Sample to Blackstone Labs for analysis.
- * Clean and gapped spark plugs IAW Manufacturer's Recommendations
- * Inspected and lubed all engine controls as needed
- * Replace all Engine Exhaust Gaskets with new P/N: 77611
- * Replaced the Engine Driven Fuel Pump with new P/N: AF15472 S/N: 16TN15

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.

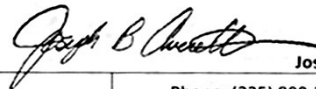
Inspections Completed:

* Complied with Engine 100HR/Annual Inspection IAW manufacturer's instructions and current FARs

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INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.

Make: **Lycoming**
Model: **O-320-E2A**
Serial No.: **L-17961-27A**



Reg No.: **N5526M**
Date: **3/3/2025**
W/O No.: **2565**

AFTT: **3661.22**

ENGINE MAINTENANCE ENTRY

Tach: **1602.22**

TSMOH:
641.92

Description of Work Accomplished.**Work Completed:**

- * Completed Hot Compression Check as follows: #1= 72/80 #2= 70/80 #3= 70/80 #4= 72/80
- * Completed Oil & Filter Change. Installed new filter P/N: AA48110-2. Serviced engine with Phillips X/C 20W50. Sent Oil Sample to Blackstone Labs for analysis.
- * Clean and gapped spark plugs IAW Manufacturer's Recommendations
- * Inspected and lubed all engine controls as needed
- * Installed new Crankshaft oil seal P/N: LW-13792 and new expansion plug P/N: STD-1211
- * Tightened hardware on Oil Pan as needed and leak check OK

INSPECTION & MAINTENANCE RECORD

DATE

TOTAL
TIME

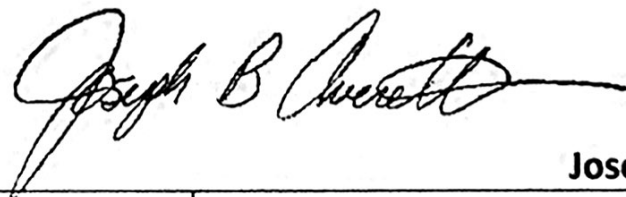
INSPECTION OR MAINTENANCE PERFORMED
AGENCY & CERTIFICATE NO.

Inspections Completed:

- * Complied with Engine **100HR/Annual Inspection** IAW manufacturer's instructions and current FARs
- * C/W AD **2024-21-02** Connecting Rod Failure. Engine not assembled during ship date range and no parts replaced since. No Further Action Required
- * C/W AD **2017-16-11** Connecting Rod Failure. Engine not listed in S/N range and no parts installed during date range. No Further Action Required

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