

UNITED STATES OF AMERICA — FEDERAL AVIATION AGENCY
STANDARD AIRWORTHINESS CERTIFICATE

1. NATIONALITY AND REGISTRATION MARKS	2. MANUFACTURER AND MODEL	3. AIRCRAFT SERIAL NUMBER	4. CATEGORY
N915IV	Mooney M20E	690031	Normal

5. AUTHORITY AND BASIS FOR ISSUANCE
 This airworthiness certificate is issued pursuant to the Federal Aviation Act of 1958 and certifies that, as of the date of issuance, the aircraft to which issued has been inspected and found to conform to the type certificate therefor, to be in condition for safe operation, and has been shown to meet the requirements of the applicable comprehensive and detailed airworthiness code as provided by Annex B to the Convention on International Civil Aviation, except as noted herein.
 Exceptions:
 None

6. TERMS AND CONDITIONS
 Unless sooner surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator, this airworthiness certificate is effective as long as the maintenance, preventive maintenance, and alterations are performed in accordance with Parts 21, 43, and 91 of the Federal Aviation Regulations, as appropriate, and the aircraft is registered in the United States.

DATE OF ISSUANCE	FAA OFFICIAL	DISPATCH
3-28-69	[REDACTED]	SAT EMDO 2-0-43

Any alteration, reproduction, or misuse of this certificate may be punishable by a fine not exceeding \$1,000, or imprisonment not exceeding 3 years, or both. THIS CERTIFICATE MUST BE DISPLAYED IN THE AIRCRAFT IN ACCORDANCE WITH APPLICABLE FEDERAL AVIATION REGULATIONS.

The Standard
AIRCRAFT LOG

ASA-SA-2

Aircraft Record General Information

Manufacturer Mooney Model M-20-E
Serial 690031 Registration Number N9151V
Date of Manufacture _____

Engine(s) currently installed:

Manufacturer Lycoming Model I-O 360 A3B6 Serial L27187-51A
Manufacturer _____ Model _____ Serial _____

Propeller(s) currently installed:

Manufacturer Hartzell Model (C) HC-C27K-1B
HUB Model _____ Serial _____ Serial _____
Blade Model _____ Serial _____ Serial _____ Serial _____
Blade Model _____ Serial _____ Serial _____ Serial _____



Date: 05/17/2024 Reg.#: N9151V Tach: 726.47 AFTT: 3942.47

C/W Annual inspection referencing FAR 43 appendix (d) and Mooney M20E inspection checklist and service/maintenance manuals. C/W FAR 91.207(d) ELT functional test, due for replacement on July 2028. Lubricated airframe referencing Mooney maintenance manual lubrication schedule. Placed aircraft on jacks, greased landing gear system per maintenance manual greasing schedule, checked landing gear pre-loads, and completed landing gear electric and manual retraction tests. Lubricated landing gear system per **AD 73-21-01**, due every 100hrs, next due at tach 826.47. Cleaned, inspected, and re-packed all wheel bearings. Removed, cleaned, re-installed, and serviced brake fluid reservoirs. Re-sealed windscreen. Spot re-sealed RH fuel tank at lower forward wing-root. Replaced RH fuel sending unit gasket with new. Removed engine instrument cluster gauge, RPM Gauge, MAP gauge, and EGT monitor. Installed JPI fuel flow transducer per STC SA00432SE and JPI fuel flow installation manual, Report No: 503 Rev. B, dated March 14, 1997. Installed two new fuel hoses to and from fuel flow transducer. Installed JP Instruments EDM-900 Primary Engine Data Management System per STC SA01435SE, and JP Instrument installation manual for EDM-900, Report 908 Rev. H, dated 01/03/2012. Installed new 5 amp klaxon circuit breaker for EDM-900. EDM-900 Flight manual supplement No. 900-0001 Rev. E included with aircraft POH, and ICA Supplement No: 905-01 included with aircraft records. Weight and Balance updated. STC documents and FAA form 337 included with aircraft records. EDM tach time programed to previous tachometer time. Fabricated close-out panels for removed instruments in instrument panel. Complied with **AD 75-09-08** engine mount inspection, due again at tach: 826.47. Replaced fuel cap inner and outer O-rings per **AD 85-24-03**, inspection due again at tach: 826.47. Verified AD compliance bi-weekly to 05/17/2024 per manufacturer. A complete AD summery has been furnished to the aircraft owner and is part of the aircraft permanent records. Run-up and leak check, Ok. *I certify that this aircraft has been inspected in accordance with an **annual inspection** and was determined to be in an airworthy condition at this time.*

A&P

____ JD Casteel



Date: 05/17/2024 Reg.#: N9151V Tach: 726.47 ETT: 726.47

C/W 100 hour inspection referencing FAR 43 appendix (d) and Lycoming service/maintenance manuals. Compression tested: #1-74/80, #2-75/80, #3-73/80, and #4-72/80. Removed spark plugs, cleaned, inspected, gapped, tested, and re-installed with new copper crush washers. Ultrasonically cleaned fuel injectors. Drained oil, removed filter, and inspected filter for metal, no abnormal particulate found. Serviced engine with AA48110-2 filter and 7qts. Phillips 20W50 oil and camguard. Replaced dipstick tube gasket with new silicone gasket, tightened and safety-wired dipstick tube. Replaced leaking oil cooler fitting crush gasket. Replaced starter ring gear with new. Replaced LH magneto gasket and re-timed to engine. Reversed upper engine Lord mounts that were installed backwards to proper configuration. Removed engine instrument cluster gauge, Electronic Tach, MAP gauge, and EGT gauge. Installed JPI fuel flow transducer per STC SA00432SE and JPI fuel flow installation manual, Report No: 503 Rev. B, dated March 14, 1997. Installed JP Instruments **EDM-900 Primary Engine Data Management System** per STC SA01435SE, and JP Instrument installation manual for EDM-900, Report 908 Rev. H, dated 01/03/2012. EDM tach time programed to previous tach time. Verified AD compliance bi-weekly to 05/17/2024 per manufacturer. C/W AD **2015-19-07** by inspection of fuel injector lines and clamps, inspection due again at 726.47. A complete AD summary has been furnished to the aircraft owner and is part of the aircraft permanent records. Run-up, ops, and leak check, Ok. *I certify that this engine has been inspected in accordance with a 100hr inspection and was determined to be in an airworthy condition at this time.*

A&P

____ JD Casteel



Date: 9/13/2024 Reg.#: N9151V Tach: 832.9 AFTT: 4048.9 Airframe Log
Placed aircraft on jacks, inspected landing gear system, checked landing gear pre-loads per AD **73-21-01**, no defects noted, due again at tach: 932.9. Tested gear retraction and extension without fault. Inspected fuel cap O-rings for cracks per AD **85-24-03**, no defects noted, inspection due again at tach: 932.9. C/W AD **75-09-08**, by inspection of the engine mount structure for cracks, none noted, due again at tach: 932.9. C/W AD **76-07-12** by operational test, due again at tach: 932.9. C/W AD **77-17-04** by inspection of control wheel shafts, no cracks noted, inspection due every 500 hours, next due at tach: 1332.9. Aircraft returned to service only for work performed.

A&I [REDACTED] JD Casteel



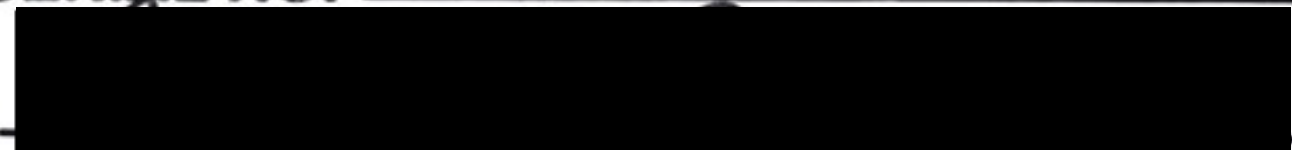
The Standard

ENGINE LOG

ASA-SE-1

NEW RECIPROCATING ENGINE CERTIFICATE

This is to certify that the engine as described hereinafter has been manufactured run-in and tested as prescribed by **TEXTRON LYCOMING** specifications and Federal Aviation Regulations. No further run-in is required. All applicable Federal Aviation Administration Directives and Textron Lycoming Service Bulletins have been complied with at time of Manufacture.

MODEL IO-360-A3B6 **SERIAL NO.** L-27187-51A
DATE 4-14-97 

(AUTHORIZED REPRESENTATIVE)

TEXTRON Lycoming

652 Oliver Street
Williamsport, PA 17701 U.S.A.

Engine Record General Information

Manufacturer Lycoming Model 10-360-A3B6

Serial L-27187-51A Type Certificate _____

This engine is currently installed in aircraft Mooney M20E N9151V

Minimum Octane Fuel _____ Oil Grade: Summer 50 Winter 40

Magneto Time _____ Point Setting _____ Firing Order _____

Spark Plug Gap _____

Manufacturer recommended overhaul at _____ hours

5
YEAR:
97
DATE

RECORDING
TACH
TIME

TODAY'S
FLIGHT

TOTAL
TIME IN
SERVICE

Description of Inspections, Tests, Repairs and Alterations

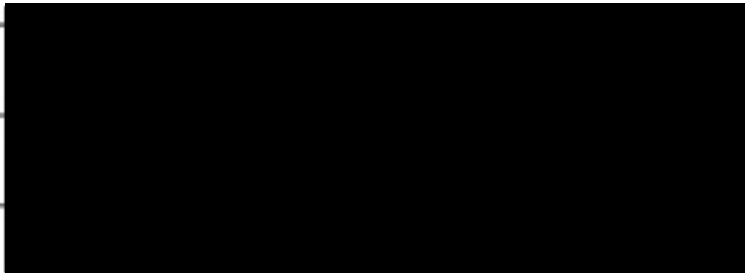
Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)

10/10

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Installed new Lycoming engine
in Mooney M915IV with
new mounts + hoses



YEAR: 97 DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
8/20			3253	Remove & prop + ck'd Run out on crankshaft flange, found Run out to be 0. Ck'd engine installation for damage due to blade tip damage, none found. Reinstalled Prop & torqued, ground Run engine ck'd oil + ck'd filter. Filter clean. Engine found to be in Airworthy condition.

3/9/2023 N9151V Lycoming IO-360-A3B6 sn L-27187-51A
Tach 561.96 hrs. TSN 561.96 hrs. (4/14/97 @ 3216.0 hrs.)

Performed Annual Inspection in accordance with Mooney Service and Maintenance Manual #106. Performed Hot Compression Test: 1) 71, 2) 77, 3) 74, 4) 73. Drained oil and removed filter. Filter inspection passed. Installed new AA48110-2 oil filter and 7 qts. Phillips 20W50 X/C oil and 12 oz CamGuard. Reinstalled fuel injectors after cleaning. Reset Rt SIM sparkplugs to .025. Reinstalled spark plugs after cleaning and gapping. Reinstalled induction air filter after recharge. Replaced Rt Magneto with new SureFly SIM4N sn 4N-4122007 refer to form 337 dated 3/9/2023. Replaced Lt Magneto with new Slick 4372 sn 16040588. CW AD 2015-19-07 by inspection of fuel injector lines, clamps and fittings per Lyc SB 342G due @ Tach 671 hrs. I certify that this Engine has been inspected in accordance with an Annual Inspection and is determined to be in Airworthy condition. Brian Kendrick

6/23	610	610	CHANGED OIL, ADDED 7QT PHILLIPS 20W 50 XC +
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Date: 08/08/2024 Reg.#: N9151V Tach: 832.9

Drained oil, removed oil filter and inspected filter for metal, no abnormal particulate noted. Installed new AA48110-2 filter, and serviced engine with 7 qts XC20W50 Victory oil. C/W AD **2015-19-07** by inspection of fuel injector lines and clamps, no defects noted, inspection due again on 932.9. Run-up, ops, and leak check, Ok. *Returned to service only for work performed.*

A&P [REDACTED] _____ JD Casteel



Engine Log

1

Propeller Logbook



SENSENICH PROPELLER SERVICE, INC.

McCauley	☐
Hartzell	☒
MT	☐
Sensenich	☐
Dowty	☐
Hamilton Standard	☐

INSTALLING AGENCY PLEASE NOTE:
Recording of Propeller Total Time Since New (TTSN)
is Required Per F.A.R. 91.417

Lancaster Airport, 519 East Airport Road, Lititz, PA 17543 (800) 462-3412 (717) 560-3711 Fax: (717) 560-4354 FAA Certified Repair Station #QV9R194N

Lee Gilmer Memorial Airport, 1142 Aviation Boulevard, Gainesville, GA 30501 (800) 791-7767 (770) 538-0444 Fax: (770) 538-0117 FAA Certified Repair Station #S46R346N

Windham County Airport, 21 Airport Road, North Windham, CT 06256 (877) 456-7944 (860) 456-7944 Fax: (860) 456-0410 FAA Certified Repair Station #Q0PR011X

Propeller Model Hartzell HC-C24K-1BF

Blade Model 2 BLADE

Hub Serial No. CH 16065 E

Blade Serial No. 1 _____

2 _____

3 _____

4 N9151V mooney m-20-E 9/11 690031

5 _____

6 _____

PART NO: C3317-228 REV-BL
REF # SAME

QUANTITY: 1 LOT NO: 293803

ORDER NO: 238397 LINE NO: 001

MFG. LOT:

HARTZELL PROPELLER, INC.

HPI P/N: C-3317- 228

CURE DATE: 4Q05

MFG. BATCH NO: 80035260

AIT. ReIT PIN
37A19773-376

Torque Mounting Bolts
60 TO 70 FT. LBS.
DRY THREADS

TOR-502

1. Approving National Aviation Authority / Country: FAA/UNITED STATES		AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG				3. Form Tracking Number: 06-0019	
4. Organization Name and Address: SENSENICH PROPELLER SERVICE, INC. 21 Airport Road - North Windham, Connecticut 06256				5. Work Order/Contract/Invoice No: CT02610			
6. Item:	7. Description:	8. Part Number:	9. Eligibility:	10. Quantity:	11. Serial / Batch Number:	12. Status / Work:	
1	PROPELLER	HC-C2YK-1BF	N/A	1	CHI6065E	REPAIRED	
13. Remarks: EDDY CURRENT INSPECTION OF HUB ONLY. WORK PERFORMED PER MANUALS 113B REV. 32, 202A REV. 29. SERVICE WORK PERFORMED A/D 2001-23-08, 2006-18-15 S/B 227 R2 S/L 165 <i>Installes 12/22/06 Tech 251.26 N9151U</i>							
14. 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 13.				19. ☒ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13. Certifies that unless otherwise specified in block 13, the work identified in Block 12 and described in Block 13 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.			
15. Authorized Signature:		16. Approval Authority Name:		20. Approval Certificate No.:		21. Approval Certificate Expiry Date:	
<i>[Signature]</i>		<i>[Signature]</i>		Q0PR011X			
17. Name (Typed or Printed):		18. Date (m/d/yy):		22. Name (Typed or Printed):		23. Date (m/d/yy):	
		00/00/00		Jason O'Brien		12/18/2006	
User/Installer Responsibilities							
It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. 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 excludes parts/components/assemblies from the airworthiness authority of the country specified in Block 1. Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certificate, issued in accordance with the national regulations by the user/installer before the aircraft may be flown.							

SERVICE HISTORY

AIRCRAFT PROPELLER

Model Number: HC-C2YK-1BF Serial Number: CH16065E

Work Performed: Eddy current hub only.

Complied with AD 2006-18-15

Per Manuals: 113B Rev. 32 AND 202A Rev. 29.

Work Order # CTO2610

Repair Station Q0PR011X Sensenich Propeller Service, Inc.

North Windham, CT 06256

Phone: [REDACTED]

Jasen O'Brien

Date: 12/18/06

Description of Work

Authorized Signatures

TACH: 289.20

TATON: 307.9 21m108

**I CERTIFY THAT THIS PROPELLER
HAS BEEN INSPECTED IN ACCORDANCE
W/ AN ANNUAL INSPECTION & HAS BEEN
FOUND TO BE IN AIRWORTHY CONDITION**

George F. Lewis Jr. A&P2759973IA

AD 2006-18-15 c/w 21m108

Date	Type	Tail #	Serial #
12/22/06	Mooney	N9151V	690031
Prop	Prop s/n	Tspch	Tach Time
Hartzell	Ch16065E	300.26	281.26

Propeller removed to c/w ad 2006-18-15 eddy current inspection performed by sensenich propeller R/S# Q0PR011X no cracks found due every 100 hr or annual inspection reinstalled prop with new alt belt and prop seal torqued and safetied run up and lk ck good. I certify this propeller has been inspected IIAW an annual inspection and found to be airworthy at this time PROPELLER MODEL# HC-C2YK-1BF PROPELLER SEAL #C3317-228

GEORGE F. LEWIS

A&P [REDACTED]

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N9151V MOONEY M20E S/N 690031

SP

SENSENICH PROPELLER SERVICE, INC.

Propeller Logbook

LOG #2

McCauley

Hartzell

MT

Sensenich

Dowty

Hamilton Standard



INSTALLING AGENCY PLEASE NOTE:
Recording of Propeller Total Time Since New (TTSN)
is Required Per F.A.R. 91.417

ncaster Airport, 519 East Airport Road, Lititz, PA 17543 (800) 462-3412 (717) 560-3711 Fax: (717) 560-4354 FAA Certified Repair Station #QV9R194N

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ndham County Airport, 21 Airport Road, North Windham, CT 06256 (877) 456-7944 (860) 456-7944 Fax: (860) 456-0410 FAA Certified Repair Station #Q0PR011X

Propeller Mo

HARTZELL HC-C2YK-1BF/F7666-2

Blade Model

2 BLADE CONSTANT SPEED

Hub Serial No.

NS1953B

Blade Serial No.

BLADE S/N J69059,J69061

2

AD 2009-22-03 NO LONGER APPLIES

3

ALT.BELT P/N 37A19773-376

4

PROP SEAL P/N C3317-228

PROP TORQUE MOUNTING BOLTS 60 TO 70 FT.LBS.

1

A&P

[illegible]



Date: 05/17/2024 Reg.#: N9151V Tach: 726.47

C/W 100 hour inspection referencing FAR 43 appendix (d) and McCauley service/maintenance manuals. Removed propeller and sent to Jordan Propeller Services for re-seal, see included repair forms; re-installed propeller, torqued, and safety-wired per manufacturer's installation instructions. Verified AD compliance bi-weekly to 05/17/2024 per manufacturer. No new applicable AD's found at this time. A complete AD summery has been furnished to the aircraft owner and is part of the aircraft permanent records. *I certify that this **propeller** has been inspected in accordance with a **100hr inspection** and was determined to be in an airworthy condition at this time.*

A&P [REDACTED] IA [REDACTED] JD Casteel

JORDAN PROPELLER SERVICE, INC.

San Antonio, Texas 78216

Certificated Repair Station No. EK2R797K

PROPELLER S/N NS1953B HAS BEEN REPAIRED

REFERENCE Harizell Manual 113B Rev. 54.

Disassembled. Cleaned. Visually Inspected. Refinished Blades. Relubricated.
Reassembled With New Seals To Correct Grease Leakage. Lubricated With NYCO
GN3058 Grease and Statically Balanced Propeller. Blade Dwg. No. F7665A-2 Serial
No.'s J69059 & J69061. C/W Service Letters 61-165, 61-267, 61-293R1, 61-354 & 61-
366.

PERTINENT DETAILS ON FILE UNDER WORK ORDER 24867

SIGNED [REDACTED] DATE 09/May/2024

MECHANIC MAKING INSTALLATION ON A/C MUST C/W FAR 43.9



Date: 9/13/2024 Reg.#: N9151V Tach: 832.9 AFTT: 4048.9 Airframe Log
Placed aircraft on jacks, inspected landing gear system, checked landing gear pre-loads per AD 73-21-01, no defects noted, due again at tach: 932.9. Tested gear retraction and extension without fault. Inspected fuel cap O-rings for cracks per AD 85-24-03, no defects noted, inspection due again at tach: 932.9. C/W AD 75-09-08, by inspection of the engine mount structure for cracks, none noted, due again at tach: 932.9. C/W AD 76-07-12 by operational test, due again at tach: 932.9. C/W AD 77-17-04 by inspection of control wheel shafts, no cracks noted, inspection due every 500 hours, next due at tach: 1332.9. Aircraft returned to service only for work performed.

A&P [REDACTED] JD Casteel