

N2510A

Book II

 *The Standard*
ENGINE LOG

ASA-SE-2

Engine Record General Information

Manufacturer Continental Model TS10-360-GB1

Serial 309034 Type Certificate 1E10

This engine is currently installed in aircraft: M20K; 25-0026; N231CA

Minimum Octane Fuel _____ Oil Grade Summer _____ Winter _____

Magneto Time _____ Point Setting _____ Firing Order _____

Spark Plug Gap _____

Manufacturer's Recommended Overhaul at _____ hours

YEAR 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.)
6-11-04	728.7 TSMOH	190.4	1361.2	Replaced capacitor P/N 10-357281 in LH mag. Run up found satisf. see work order # 4663 For further details Rodney T. Jamley A#135388626 END

YEAR 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.)
538.3				



L-08 AIRCRAFT MAINTENANCE
Cessna Authorized Service Center
424 N. Civic Dr. Palm Springs, CA. 92262

Date 10/1/04
MODEL Mooney M20K
S/N 25-0026
N 231CA
HOBBS 812.1
AFTT 1444.6
TSMOH 273.8

Changed oil and filter. Installed CH48108-1, serviced with 8qts Aeroshell 100W. Took sample for analysis. Cut old filter. No metal found. Run-up for leaks, OK.

Sign

--END--

Rodney Hamby
A&P 135388626

YEAR 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.)



L-08 AIRCRAFT MAINTENANCE
Cessna Authorized Service Center
424 N. Civic Dr. Palm Springs, CA. 92262

Date 02/03/2005

MODEL Mooney M20K

S/N 25-0026

N 231CA

HOBBS 837.9

AFTT 1470.4

TSMOH 299.6

Changed oil and filter. Installed CH48108-1 oil filter, and serviced with 8qts Aeroshell 100W. Took sample for analysis. Cut filter, and checked suction screen. No metal found. Removed and replaced ignition harness. Installed new Slick harness, P/N M2015. Performed run-up. Leak and operational check OK.

Sign. *Michael J. Paul* A&P 548959526

--END--

YEAR

DATE



L-08 AIRCRAFT MAINTENANCE
Cessna Authorized Service Center
424 N. Civic Dr. Palm Springs, CA. 92262

15

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Date 08/12/05
MODEL Mooney M20K
S/N 25-0026
N 231CA
HOBBS 893.6
AFTT 1526.1
TSMOH 355.3

I certify that this engine was inspected in accordance with an annual/100hr inspection as per FAR43 appendix D & using Mooney Maintenance Manual as a guide. Engine was removed and reinstalled to facilitate engine mount repair. Compression test completed #1 71/80, #2 73/80, #3 70/80, #4 62/80, #5 74/80, #6 71/80. Removed #4 cylinder for repair. Repair completed by Pacific Continental Engines, under W/O# 21052 (see 8130-3 with aircraft records). Reinstall cylinder. Removed spin on oil filter, checked for metal, no problems noted. Installed new oil filter, Champion CH48110-1. Drained oil & serviced with 8qts of Aeroshell 100 straight mineral oil. Checked suction screen. Serviced fuel strainer bowl. Cleaned, gapped and rotated spark plugs. Replaced 6 spark plugs with new, P/N RHM38E. Replaced induction air filter, P/N 125685-004. Checked magneto timing. Replaced #1 cylinder intake tube, P/N 629873. Replaced oil filler tube, P/N 642625, and cap, P/N 640620-15. Washed down engine. Completed run-up. All operations normal. No leaks found. Checked AD compliance through this date, see signed AD compliance listing with aircraft records for further details. W/O# 5019 is on file at this facility for further details. All work completed in accordance with Mooney & TCM Maintenance Manuals. I certify that this engine is airworthy and approved for return to service.

Sign

A&P 135388626

--END--

YEAR 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.)
				<div data-bbox="573 389 709 532" data-label="Image"> </div> <div data-bbox="934 341 1180 602" data-label="Image"> </div> <div data-bbox="1142 412 1659 505" data-label="Text"> <p>DESERT AERONAUTICS PALM SPRINGS AIRCRAFT MAINTENANCE</p> </div> <div data-bbox="1333 517 1570 586" data-label="Text"> <p>424 NORTH CIVIC DRIVE PALM SPRINGS, CA 92262 PHONE 760-323-7036 FAX 760-323-7096</p> </div> <div data-bbox="470 646 863 819" data-label="Text"> <p>Date 4/17/06 MODEL Mooney M20K S/N 25-0026 N 231CA</p> </div> <div data-bbox="1304 652 1556 736" data-label="Text"> <p>TACH HOBBS 975.8</p> </div> <div data-bbox="470 826 1566 962" data-label="Text"> <p>On this date changed oil and service w/8Qts. Aeroshell 100W oil-- Opened filter no metal found at this time—installed new CH48-108-1 Oil filter—run up leak ck OK—This A/C is OK to return to service</p> </div> <div data-bbox="470 1051 602 1131" data-label="Text"> <p>Sign. --END--</p> </div> <div data-bbox="703 1051 974 1096" data-label="Text"> <p>David Readinger</p> </div> <div data-bbox="1209 1056 1306 1093" data-label="Text"> <p>A&P</p> </div> <div data-bbox="1442 1056 1640 1093" data-label="Text"> <p>206463594</p> </div>

YEAR 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.)
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Date 8/23/06
MODEL Mooney M20K
S/N 25-0026

TACH
HOBBS 1027.2
TSMOH 488.9

I certify that this engine has been inspected in accordance with an annul inspection and was found to be in an airworthy condition. Compression as follows #1 CYL 76/80 #2 CYL 67/80 #3CYL 70/80 #4 CYL 67/80 #5 70/80 #6 CYL 69/80.

Installed a new Champion filter CH48110-1. Serviced with 8 quarts Aeroshell 100W Oil, cleaned, gapped and rotated the spark plugs and checked magneto timing, cleaned the air filter, washed engine and ran engine, all operations normal with no leaks noted.

Sign. --End-- Chris Arnold

IA 572399477

YEAR 2007 DATE	RECORDING TACH TIME HOBBS	TODAY'S FLIGHT	TOTAL TIME IN SERVICE TSMOH	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.)
07/19/2007	1044.5		506.2	Aircraft received for inspection following a light gear up landing. At time of inspection Propeller and spinner already removed. Engine cowls removed for access. Dial Indication of prop flange showed deviation of .002. Crack detection of propeller flange completed with zyglow dye penetrant and black light. No cracks found. All engine accessories removed (turbo charger, mags, Alternator, vacuum pump, fuel body, prop governor. All accessories and their respective drive gears inspected for cracks + damage - none found. Alternator body cracked and was replaced with overhauled Alternator. ser # 5100584. All six cylinders removed to facilitate inspection. No damage noted to engine internals, pistons, rods
Engine oil drained and filter removed. Filter cut open and inspected. No contamination or metal found in engine.				cont'd →

YEAR 2007 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.)
				<p>camshaft or gears. Engine cylinders and accessories re-assembled. Fixed</p> <p>Installed newly overhauled McCauley propeller Model 2A34C221-B Ser # 823197. 00.00 TSOH. Installed new oil filter CH48108-1 and 9 quarts of Aeroshell 100W engine oil. Also installed new Alternator capacitor p/n \$1915-1. Engine ground runs and leak checks completed. No leaks, all systems good. Completed extensive ground runs - all systems normal and instrumentation good. Re-installed engine cowls. One hour flight test completed with out incident - All normal. This engine & propeller was found to be in an airworthy condition & is released back to service.</p>

Paul Harper A+ P3128359 I.A.

YEAR 2007 DATE	RECORDING TIME HOBBS	TODAY'S FLIGHT	TOTAL TIME IN SERVICE TSMCH	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.)
9/1/2007	1057.65		519.35	<p> 0.1 + filter previously changed at Hobbs 1044.5. Cleaned, gaped + rotated all spark plugs. Checked and adjusted timing of Magneto's to engine. Cleaned air filter and washed engine. Inspected all fuel + oil lines and hoses. Inspected all control cables and attachments. Inspected engine mount (cradle) and mount rubbers. Checked all AD's and SB's - engine in compliance at this time. Engine compressions were #1 77/80 #2 69/80 #3 70/80 #4 68/80 #5 71/80 #6 69/80. Engine runs completed. All operations normal with no leaks noted at this time. I certify that this engine has been inspected in accordance with an ANNUAL inspection and was found to be in an airworthy condition Paul Harper A#P3126359 IA </p>

AUTHOR

4. Organization of the UNITED STATES

Alterations

ie Number of specific entries.)

Entries must be endorsed by a Technician or Repair Facility. (See back pages for details.)

YEAR 2007 DATE	RECORDING TIME HOBBS	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	
11-14-07	1092.01			Installed new oil filter CH48108-1 + 9 Quarts of Amsoil 100W engine oil
12-6-07				Removed + Replaced ALTERNATOR Coupling with overhauled UNIT
3-28-08	Hobbs 1102.7			AD NOTE 2008-06-51 DOES NOT Apply DUE TO NO SERVO INSTALLED. ON ENGINE. NO ACTION REQUIRED.
				Atty SL #235025903

YEAR 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.)
8-25-08	1148.7			<p> CW 100 hour Inspection IAW maintenance manual DRAINED oil & serviced with 895 oil AIR FILTER ① 76/80 ② 74/80 ③ 75/80 ④ 75/80 ⑤ 76/80 ⑥ 72/80 Change All Sparkplugs. Ran Engine and All Readings Normal AT This Time. </p> <p> I CERTIFY THAT THIS <u>Engine</u> HAS BEEN INSPECTED IN ACCOR DANCE WITH A <u>ANNUAL</u> INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. </p> <p> <i>[Signature]</i> A8235025E03FA </p>

[illegible]

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.)

1009
DATE

RECORDING
TACH
TIME

TODAY'S
FLIGHT

TOTAL
TIME IN
SERVICE

06/02

1212.2

1844.7

REMOVED + REPLACED THE RIGHT
MAGNETO, PIN INSTALLED BL500SS6-3,
SPINDORCAO9SR IN REBUILT CONDITION,
INSTALLED WITH NEW GASKET + LOCKING
HARDWARE. REPLACED THE THROUGH
BELTS PIN 652420-10.48 FOR CYLS #2 +
#3 RRTCH OURNHAUL MANUAL. REMOVED
+ REPLACED THE TAILPIPE CLAMP DUE TO
CONDITION, PIN 653332, TORQUED TO
40 INCH LBS PER TCN O/H MANUAL 72-40-14
PAGE 72-40-09, SECURED WITH SAFETY WIRE.
REPAIRING SPARK PLUG LEAD FOR #6 CYL,
LOWER SPARK PLUG, REPLACED LERT
COIL PLAP BALL JOINT ASSY WITH NEW,
PIN A29104, REMOVED + CUT OIL FILTER
FOR INSPECTION, NO DIRECT SWIRL
NOTED, COMPLETED INSPECTION RUN UP

YEAR 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.)
				<p>2 LRAK CHECK, ops was normal with no LRAKS,</p> <p style="text-align: center;">MAINTENANCE RELEASE</p> <p>The aircraft, airframe, aircraft engine, propellor, or appliance identified above was repaired and inspected in accordance with current Regulations of the Federal Aviation Administration and is approved for return to service. Pertinent details of the repair are on file at this repair station under Order No. <u>12071</u> Date <u>6-02-2009</u></p> <p>Signed <u>[Signature]</u> for Pensacola Aviation Center, Pensacola Regional Airport, Pensacola, FL 32513 Repair Station KRTR805F</p>

[illegible]

YEAR 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.)
9-10-69 Hobbs	22.4	Yr 100 hour annual		<p>hour Inspection IAW maintenance ① 72/80 ② 75/80 ③ 62/80 ④ 66/80 ⑤ 78/80 ⑥ 74/80 Inspected all Hoses, Exhaust R&R LH mag Gasket changed all rocker Gaskets ran engine + all readings normal at this time.</p> <p>I CERTIFY THAT THIS <u>Engine</u> HAS BEEN INSPECTED IN ACCOR- DANCE WITH A <u>ANNUAL</u> INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.</p> <p><i>[Signature]</i> A&P 233025903IA</p>

YEAR 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.)
9-18-09 Hobbs	22.4			Removed & Replaced ACT Trans with overhauled unit ops checked good. <i>Alt Al ADP235025503</i>
12-29-09 HOBBS	44.4			Replaced O-ring & gasket on oil drain. Drained oil & replaced. Removed & replaced oil filter <i>Alt Al ADP235025503</i>
1-15-10	44.9			Removed & Replaced oil Press switch with new switch ops checked good. <i>Alt Al ADP235025503</i>

YEAR 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.)
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Aircraft: N231CA
Model: M20K
Serial: 25-0026

**Pensacola
Aviation
Center, L.L.C.**



Date: 10-06-2010

Tach Time:

Hobbs Time: 89.0

Total Time: 1937.4

- 1) C/W ANNUAL INSPECTION IN ACCORDANCE WITH FAR 43 APPENDIX D
- 2) CHANGED OIL AND FILTER. SERVICED WITH 8 QTS A/S W100 OIL AND CH48108-1 FILTER. TEST RAN ENGINE NO LEAKS NOTED.
- 3) COMPRESSIONS AS FOLLOWS: 1) 73/80 2) 65/80 3) 73/80 4) 68/80 5) 68/80 6) 70/80.
- 4) REMOVED, CLEANED AND INSPECTED ALL FUEL NOZZLES. REINSTALLED SAME
- 5) REMOVED AND SENT FOR REPAIR EXHAUST RISER P/N 642220-905-2 AND ELBOW ASSEMBLY P/N 642220-905-1 WAS SENT AS WELL FOR PROPER FITMENT. RECEIVED BACK FROM AEROSPACE WELDING C.S.R. UWDR792L IN REPAIRED CONDITION. REINSTALLED ONTO THE ENGINE WITH NEW GASKETS P/N 630365 AND NEW NUTS AS REQUIRED. TORQUED AND SAFETIED ALL V-BAND CLAMPS AND REINSTALLED THE INDUCTION AIR FILTER ASSY, REF TCM MANUAL X30596A.
- 6) C/W AD84-26-02 BY REPLACING INDUCTION AIR FILTER P/N AM10830 6FP.

I CERTIFY THAT THIS Engine HAS BEEN INSPECTED IN ACCORDANCE WITH A Annual INSPECTION AND DETERMINED TO BE IN AN AIRWORTHY CONDITION.

MAINTENANCE RELEASE

The aircraft, airframe, aircraft engine, propeller, or appliance identified above was repaired and inspected in accordance with current Regulations of the Federal Aviation Administration and is approved for return to service. Pertinent details of the repair are on file at this repair station under

work order W0-12550 Date 10-06-10 Signed John W. Green

Pensacola Aviation Center, Pensacola Regional Airport, Pensacola, FL 32513
Repair Station

YEAR 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.)
Aug-20-2011 131.7				Drained oil & Serviced R&R oil Filter. Ran Engine & NO Leaks noted. [Signature] AIP235025903
9-13-2011 134.9				R&R vacuum pump with New Pump ops checked good. [Signature] AIP235025903

YEAR 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.)
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Aircraft: N231CA
Model: TSIO-360-GB1
Serial: 309034
TSO: 818.1

**Pensacola
Aviation
Center, L.L.C.**



Date: 11/15/2011
Tach Time:
Hobbs Time: 140.3
Total Time: 1988.8

- 1) C/W ANNUAL INSPECTION IN ACCORDANCE WITH FAR 43 APPENDIX D.
- 2) CHANGED OIL AND FILTER. SERVICED WITH 8 QTS A/S W100 OIL AND CH48108-1 FILTER. TEST RAN ENGINE NO LEAKS NOTED.
- 3) COMPRESSIONS AS FOLLOWS: 1) 65/80 2) 64/80 3) 68/80 4) 62/80 5) 70/80 6) 65/80.

I CERTIFY THAT THIS Engine HAS BEEN INSPECTED IN ACCORDANCE WITH A Annual INSPECTION AND DETERMINED TO BE IN AN AIRWORTHY CONDITION.


MAINTENANCE RELEASE

The aircraft, airframe, aircraft engine, propeller, or appliance identified above was repaired and inspected in accordance with current Regulations of the Federal Aviation Administration and is approved for return to service. Pertinent details of the repair are on file at this repair station under

work order W0-12937 Date 11-15-11 Signed John A. Grace

Pensacola Aviation Center, Pensacola Regional Airport, Pensacola, FL. 32513

Repair Station

YEAR 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.)
				<p>Blue Horizon Aviation</p> <p>12301 Airport Road Bay Minette, AL. 36507</p> <p>205-705-4974</p> <p>12-13-2012</p> <p>N231CA Engine Hobbs Time: 204.3 Engine Total Time: 2052.8</p> <p>Engine TSO: 882.1 Engine S/N: 309034</p> <p>Complied with a 100 Hour/Annual Inspection IAW FAR 43 Appendix D. Cleaned engine and oil cooler. Drained oil. Removed, Replaced & inspected old filter for metal none noted. Serviced engine with 8 quarts of Aerosheli W100 oil. Removed all spark plugs, cleaned, gapped and tested. Compressions checks good: #1 72/80 #2 71/80 #3 76/80 #4 7364/80 #5 75/80 #6 73/80. Magneto timing checks good. Ground run and leak checks good. IAW Continental and Mooney Maintenance Manuals. No other defects noted.</p> <p>I certify that this aircraft has been inspected in accordance FAR 43 appendix D and 100 hour/Annual inspection manuals and was determined to be in an airworthy condition.</p> <p> Doran A Pedri A&P 3205413 IA</p>

YEAR 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.)
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07 May 2013 0212.4 hobbs

Replaced starter P/N MCL-6501 S/N H-M102345 W/O #

M065470 IAW TCM SM. Ground run check good.

N231CA

Lee Munshower
AP167666230

07 May 2013 0212.4 hobbs

Replaced engine fuel pump P/N 639508-6 S/N H127920B

W/O #23647 IAW TCM SM. Ground run leak/ops check good.

N231CA

Lee Munshower
AP167666230

24 Dec 2013 255.3 Hobbs 933.1 TSMOH

Performed 100/Annual inspection I.A.W. Mooney MM.

AD's checked thru this date, no AD's due at this time.

Compression check as follows: # 1 70, # 2 69, # 3 73, # 4

70, # 5 74, # 6 72/80 PSI cold. Drained and serviced 8 qt
Aeroshell 15W50, oil filter P/N CH48108-1.

I certify that this engine has been inspected IAW an Annual
inspection and found to be in an airworthy condition.

Lee Munshower
AP167666230IA

YEAR
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.)

Blue Horizon Aircraft Maintenance
4141 Jerry L. Maygarden Rd.
Pensacola, Fl. 32504
Phone:850-433-6116
Fax:850-433-6114

02/19/2014

Mooney M20K231

N231CA

Serial Number :25-0026

Hobbs: 260.5

Tested aircraft starting system and found battery weak and starter solenoid to be defective. Charged battery and load tested. Removed solenoid part number SAZ4201E and installed new part number SAZ4201E. Started aircraft and found no further defects.

Maintenance release/Return to service: This aircraft, airframe, aircraft engine, propeller or appliance identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. All work was performed in accordance with applicable aircraft, engine and appliance maintenance manuals and instructions.



Date: 2-19-14

Brendon Doherty AP# 3584465

YEAR 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.)
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Date: 3-11-2014

Hobbs: 263.8 hrs.

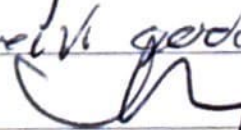
Remove defective starter p/n MCL-6501R, s/n W-M102345. Install
overhauled starter p/n MCL-6501, s/n H-N110139 using new o-ring. See
FAA form 8130-3 by RS#1HZR769B, W.O.#M254220, dated 11-11-2013.
Perform operational test. Starter switch intermittent/defective.

Engine Log entry for N231CA


Jerry L. Miller A&PIA3633839

18 July 14 287.8 Hobbs

Howard to replaced turbocharger check
valve P/N 641221 with new part
see WO # 410268, TSM TSC 360 M/M.
Grand run 1 hour cruise good.

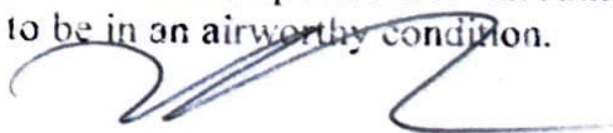
 A. H. Miller

YEAR 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.)
09-05-14			300.5	CHANGED OIL & FILTER. INSTALLED CH-48101-1, SERVICED WITH 8 QTS. AEROSHELL 100W. RUN-UP FOR LEAKS OK. Jerry D. Brown

12 Jan 2015 326.1 Hobbs 1003.9 TSMOH

Performed 100/Annual inspection I.A.W. Mooney MM. AD's checked thru this date, no AD's due at this time. Compression check as follows: # 1 69, # 2 70,, # 3 74, # 4 71, # 5 70, # 6 69/80 PSI cold.

I certify that this engine has been inspected IAW an Annual inspection and found to be in an airworthy condition.



Lee Munshower
API676662301A

1	2	3	4	5	6
DATE			HOBBS ENGINE TIME	TOTAL TIME	S M O H DIFFERENCE
06-19-79	ANNUAL		95.00	95.00	95.00
03-27-80	OIL & FILTER CHANGE		108.60	108.60	136.0
05-23-80	ANNUAL		119.80	119.80	112.0
08-04-80	OIL & FILTER CHANGE		159.90	159.90	40.10
06-12-81	100 HR.		197.00	197.00	37.10
01-15-82	OIL & FILTER CHANGE		232.30	232.30	35.30
02-18-82	INSTALLED TURBO TURB		233.00	233.00	7.0
07-01-82	100 HR INSPECTION		239.30	239.30	6.30
12-17-82	INSTALLED AIR REFERENCE TUBE		248.40	248.40	9.10
03-09-83	CHANGED OIL & FILTER		250.10	250.10	1.70
06-22-83	100 HR INSPECTION		255.90	255.90	5.80
02-13-84	OIL & FILTER CHANGE		281.90	281.90	26.00
07-12-84	100 HR. INSPECTION		290.00	290.00	8.10
02-25-85	CHANGED OIL & FILTER		320.10	320.10	30.10
07-02-85	ANNUAL INSPECTION		327.60	327.60	7.50
03-04-86	CHANGED OIL & FILTER		343.20	343.20	15.60
07-09-86	ANNUAL INSPECTION		348.00	348.00	4.80
01-33-87	OIL & FILTER CHANGE		355.70	355.70	7.70
07-08-87	ANNUAL INSPECTION		359.60	359.60	3.90
02-02-88	OIL & FILTER CHANGE		368.70	368.70	9.10
07-14-88	ANNUAL INSPECTION		369.00	369.00	3.0
10-07-88	CHANGED OIL & FILTER		369.90	369.90	9.0
07-02-89	ANNUAL INSPECTION	NEW HOBBS	12.90	396.70	27.00
07-11-90	ANNUAL INSPECTION		52.50	434.50	39.60
07-12-91	ANNUAL INSPECTION			685.00	
06-16-92	ANNUAL INSPECTION		77.70		252.0
09-07-92	ENGINE REPAIR		97.30		196.0
04-26-93	OIL & FILTER CHANGE		126.02		287.2
07-01-93	ANNUAL INSPECTION		130.00	574.00	3.98
08-10-94	ANNUAL INSPECTION		178.00	562.00	48.00
09-22-95	ANNUAL INSPECT.		251.70	635.70	737.0
03-22-96	ENGINE TEAR DOWN & INSPECC.		253.10		14.0
07-21-97	ANNUAL INSPECTION		323.80	707.80	707.0
07-07-98	ANNUAL INSPECT.		365.60	749.60	41.80
08-01-99	ANNUAL INSPECTION		390.40	774.40	24.80
09-01-00	ANNUAL INSPECTION		437.80	821.80	47.40
05-24-01	REPLACED MAN/FLD HOSE		457.90		20.10
12-07-01	ANNUAL INSPECTION		507.03		49.13
04-09-03	ENGINE OVERHAUL		538.33	922.33	31.30
05-13-03	ANNUAL INSPECTION		538.33	922.33	
06-20-03	TURBOCHARGE OVERHAUL		542.50	926.50	4.17

MOONEY N-231 CA SERIAL # 25-0826
 ENGINE LOG BOOK SUMMARY
 01-15-15

PAGE 2 OF 2

Initials	Date
Prepared By	
Approved By	

DATE	HOBB'S ENGINE TIME	TOTAL TIME	SMOH DIFFERENCE
09-22-03.	OIL & FILTER CHANGE.	60790	99190
11-14-03.	REPAIRED EXHAUST STACK.	63270	101670
02-10-04	OIL & FILTER CHANGE.	68230	106630
02-13-04	OVERHAULED ALTERNATOR.	68260	106640
06-04-04	ANNUAL INSPECTION.	72700	111100
06-11-04	REPLACED CAPACITOR.	72870	111270
10-01-04	OIL & FILTER CHANGE.	81210	119610
02-03-05	OIL & FILTER CHNG. ^{NEW} IGNITION HARNESS	83790	122190
08-12-05	ANNUAL INSPECTION.	89360	127760
04-17-06.	OIL & FILTER CHANGE.	97580	135980
08-23-06.	ANNUAL INSPECTION.	102720	141120
07-09-07	ENGINE REMOVED & INSPECTED	104450	142850
09-01-07	AFTER LIGHT GEAR-UP LANDING.	105765	144165
11-14-07	ANNUAL INSPECTION.	109201	147601
03-28-08	OIL & FILTER CHANGE.	110270	148670
08-25-08	AD CHECK, NO ACTION REQUIRED	114870	153270
02-13-09	100 HR INSPECTION	120243	158663
06-02-09	REPLACED L/MAG.	121220	159620
07-17-09	REPLACED R/MAG. ^{NEW HARNESS}	623	160243
09-10-09	OIL & FILTER CHANGE.	2240	161860
09-18-09.	ANNUAL INSPECTION.	2240	161860
12-29-09	REPLACED ALTERNATOR	4440	164060
01-15-10	OIL & FILTER CHANGE ^{REPLACED OIL DRAIN G-RING.}	4490	164110
02-09-10	INSTALLED NEW OIL PRES. SWITCH.	5040	164660
10-06-10	NEW TRANSDUCER	8900	168520
08-20-11	ANNUAL INSPECTION	13170	172790
09-13-11	OIL & FILTER CHANGE	13490	173110
11-15-11	NEW VACUUM PUMP.	14030	173650
12-13-12	ANNUAL INSPECTION	20430	180050
05-07-13	REPLACED STARTER & FUEL PUMP	21240	180860
12-24-13	ANNUAL INSPECTION	25530	185150
02-19-14	NEW STARTER SOLENOID	26050	185670
03-11-14	INSTALLED OVERHAULED STARTER	26380	186000
07-18-14	INSTALLED NEW TURBOCHARGE VALVE. ^{DECN.}	28780	188400
09-05-14	CHANGED OIL & FILTER.	30050	189670
01-15-15	ANNUAL INSPECTION.	32610	192230
	T S O M	192230	99997

YEAR 2015 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.)
04/11/15	343.2			CHANGED OIL & FILTER. INSTALLED CH 48161-1 SERVICED WITH 8 QTS OF AEROSHELL 100W RUN-UP FOR LEAKS. OK Jimmy D. Olson
11/13/15	375.3			R&R VACUUM PUMP WITH NEW PUMP. OPS CHECKED OUT GOOD MODEL AA3215CC S/N CEP118 AP16766230

YEAR

DATE


RECORDING
TACH
TIMETODAY'S
FLIGHTTOTAL
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.)

11 Feb 2016 378.4 Hobbs 1056.2 TSMOH

Performed 100/Annual inspection I.A.W. Mooney MM. AD's checked thru this date, no AD's due at this time. Compression check as follows: # 1 70, # 2 68, # 3 72, # 4 72, # 5 70, # 6 70/80 PSI cold. Drained and serviced 7 qt Aeroshell W 100 oil added 11 oz camguard, replaced oil filter P/N CH48110-1 IAW Mooney MM

I certify that this engine has been inspected IAW an Annual inspection and found to be in an airworthy condition.



Lee Munshower
AP167666230IA

YEAR 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.)
02 June 2016	396.8			<p>Revised engine fuel pump P/N 639508-6 S/N 11279208 installed S/N B0411A 1581 2/16 TCM MM. OCG</p> <p><i>[Signature]</i> AP16766230IA</p>

03 Mar 2017 41.0 Hobbs 1113.2 TSMOH

Performed 100/Annual inspection IAW Mooney MM. AD's checked thru this date, no AD's due at this time. Compression check as follows: # 1 67, # 2 65, # 3 69, # 4 68, # 5 66, # 6 66/80 PSI cold. Replaced right side exhaust gaskets P/N RA 970 IAW Mooney MM

I certify that this engine has been inspected IAW an Annual inspection and found to be in an airworthy condition.

[Signature]
Lee Munshower
AP167666230IA

YEAR 2017 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.)
10-03-17	71.4			CHANGED OIL & FILTER. INSTALLED CH48108-1 FILTER. SERVICED WITH 8 QTS AEROSHELL 100W. RUN-UP FOR LEAKS OK. Jerryd. Brown

19 Mar 2018 99.1 Hobbs 1171.3 TSMOH

Performed 100/Annual inspection I.A.W. Mooney MM. AD's checked thru this date, no AD's due at this time. Compression check as follows: # 1 72, # 2 68, # 3 72, # 4 64, # 5 71, # 6 67/80 PSI cold.

I certify that this engine has been inspected IAW an Annual inspection and found to be in an airworthy condition


Lee Munshower
AP1676662301A

YEAR

DATE

RECORDING
TACH
TIMETODAY'S
FLIGHTTOTAL
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.)

07 Apr 2019 1201.1 TSMOH

Performed 100/Annual inspection I.A.W. Mooney MM. AD's checked thru this date, no AD's due at this time. Compression check as follows: # 1 68, # 2 66, # 3 67, # 4 65, # 5 67, # 6 65/80 PSI cold. Replaced 3 ea exhaust gasket P/N RA970, turbo gasket P/N 643932. Drained and serviced 8 qt Aeroshell W100 and oil filter CH-48108-1 IAW Mooney MM.

I certify that this engine has been inspected IAW an Annual inspection and found to be in an airworthy condition.



Lee Munshower
AP1676662301A

YEAR 2019 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.)
10-07-19	142.9		1233.7	CHANGED OIL & FILTER. INSTALLED CH 48108-1 OIL FILTER. SERVICE WITH 8 QTS. AEROSHELL 100W. RUN UP FOR LEAKS. OK. Jerry D. Caron

03 May 2020 0173.2 hobbs 1344.5 TSMOH

Performed 100 hour/annual inspection IAW Part 43 App.
D. AD's checked, no new or recurring AD's due at this
time. Cleaned and inspected spark plugs, compression
check: #1 69, #2 67, #3 70, #4 65, #5 68, #6 65/80.
Replaced pushrod tube seals, ground run leak/ops check
good.

I certify that this engine has been inspected IAW an Annual
inspection and was determined to be in an airworthy
condition.

Lee Munshower
AP167666230IA

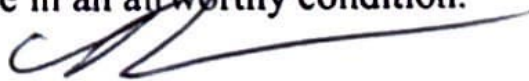
YEAR DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
17 Aug 72				<p>Removed to replace Alternator P/N ALX - 7S2SB S/N H-4061511 & coupling P/N 635796 S/N QMA 663520 Dynamometer mm. Cumulative qts checked good.</p> <p>✓ W/DICT 66270</p>
07-01-20	183.1			<p>CHANGED OIL & FILTER. INSTALLED CH-48108 FILTER. SERVICED WITH 8 QTS. OF AEROSHALL 100 W. RUN UP FOR LEAKS, OK. <i>Jimmy D. Lewis</i></p>

YEAR 2021 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.)
03-16-21	218.6			CHANGED OIL & FILTER. INSTALLED CH-48108 FILTER. SERVICE WITH 8 QTS. OF AEROSHGLC 100W. RUN UP FOR LEAKS, OK. <i>Jimmy D. Brown</i>

19 23 June 2021 229.0 Hobbs and 1301.2 TSMOH

Performed 100/Annual inspection I.A.W. Mooney MM. AD's checked thru this date, no AD's due at this time. Compression check as follows: # 1 69, # 2 65, # 3 70, # 4 63, # 5 68, # 6 68/80 PSI cold. Replaced 3 exhaust gaskets P/N RA970, 3 exhaust studs P/N 657986 IAW TCM MM.

I certify that this engine has been inspected IAW an Annual inspection and found to be in an airworthy condition.



Lee Munshower
AP1676662301A

YEAR

DATE

RECORDING
TACH
TIMETODAY'S
FLIGHTTOTAL
TIME IN
SERVICE**Description of Inspections, Tests, Repairs and Alterations**

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3689 Industrial Park Drive,
Marianna, FL, 32423
<https://nevilleaviation.com>

01 July 2022 270.3 Hobbs Hobbs and 1342.4 TSMOH

Performed 100% Annual inspection IAW Mooney MM. AD's checked thru this date, no AD's due at this time. Compression check as follows: # 1 71, # 2 68, # 3 68, # 4 67, # 5 71, # 6 73/80 PSI cold. Replaced all seals and washers for all 6 fuel injectors and attached air tubes IAW TCM MM.

Declare that this engine has been inspected IAW an Annual inspection and found to be in an airworthy condition.

Lee Munshower
API67666230IA

10-25-22 285.2

CHANGED OIL & FILTER, INSTALLED CH48108-2
FILTER, SERVICED WITH 8 QTS. AEROSHELL 100W,
RUN-UP FOR LEAKS OK. Jerry L. Brown

YEAR DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Altera Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific en
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Date: 06/12/2024 **Hours:** Hobbs: 321.1 TSMO: 1456.17

Tail#: N231CA

Make: Mooney

Model: M20K

S/N: 25-0026

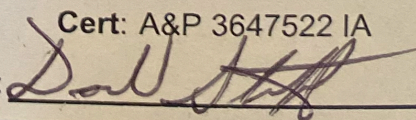
Performed an annual inspection on this engine using Mooney MM and FAR 43 appendix D as a guide. Compression test: #1 58/80 #2 59/80 #3 66/80 #4 64/80 #5 74/80 #6 72/80. Oil and filter change. Installed and safety wired AA48108. Serviced engine with 7 quarts Aeroshell W100 oil. Installed all new valve cover gaskets. C/W 500 hour magneto inspection. Inspected left and right impulse couplings. Installed new gear kits 10-357586 in left and right magnetos. Cleaned exhaust port on #5 cylinder and reinstalled exhaust with new gaskets. Installed missing oring on starter. C/W AD 23-09-09 tailpipe v-band coupling inspection per para (i)(2) of AD. Clamp replacement due 7/2025. AD 23-05-16 crankshaft counterweight retaining rings is NA by SN. AD 23-17-04 oil filter adapter gasket is NA, not installed. I certify that this engine has been inspected in accordance with an annual inspection and is determined to be in airworthy condition.....

Name: Donald Stafford

Co: DC Aviation LLC

Cert: A&P 3647522 IA

Sign:



YEAR 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.)
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Engine Logbook Insert: June 20, 2025

N231CA
Mooney M20K SN: 25-0026
Engine: Continental TSIO-360-GB1 SN: 309034
Tach Time: 367.1
TSMO: 1502.2
TTAF: 2426.5

Description of work performed:

Performed Annual Inspection IAW Mooney & Continental Service Manuals, and FAR 43 (D). Performed oil change and filter replacement with no metal or contaminants found. Serviced engine with 8 quarts of Phillips 100w/50, installed new oil filter AA48108-2. Removed and replaced all sparkplugs with new TEMPEST UREM38E, gapped, tested, reinstalled with new copper gaskets. Tested magneto wiring harnesses, no defects found. Checked magneto to engine timing. Performed differential pressure test, all cylinders made sufficient compression. #1: 64/80 #2: 65/80 #3: 70/80 #4: 68/80 #5: 72/80 #6: 72/80. Inspected muffler, no cracks found on exhaust system. Complied with AD 84-26-02, removed, cleaned, reinstalled air filter AM108365FP, new filter required July 2027 or at TTAF: 2,878.5. Fuel screen removed and inspected, cleaned, reinstalled, and safety wired. Removed old gasket material near air intake and rear baffle, replaced with new. Lubricated engine controls as required. Complied with AD 23-09-09 Tailpipe V-Band coupling inspection per Para (i) (2). Replacement due July 31, 2025. Airworthiness Directives checked through Bi-weekly issuance 2025-12. Performed engine run-up and operational check with no leaks found.

I certify this engine was inspected IAW an Annual Inspection and was determined to be in airworthy condition at the time of inspection and is approved to return for service.

Dw S. Blair Jr.
Dwayne S. Blair Jr
A&P / IA 3627328