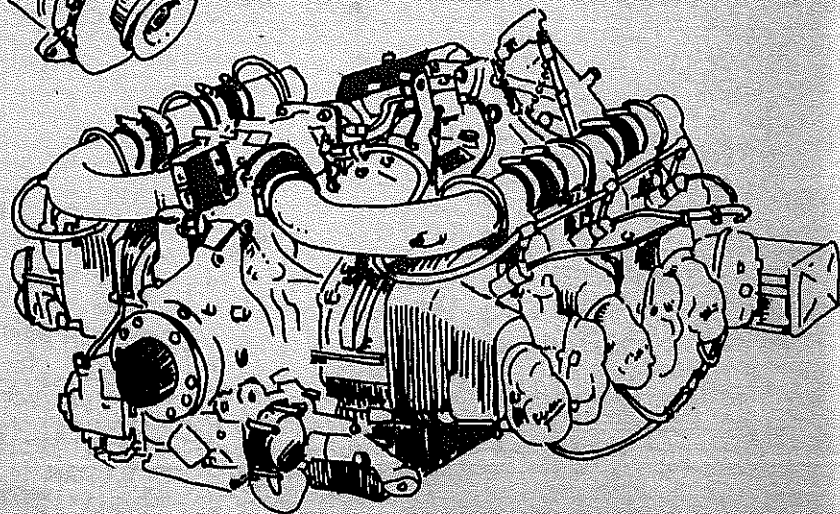
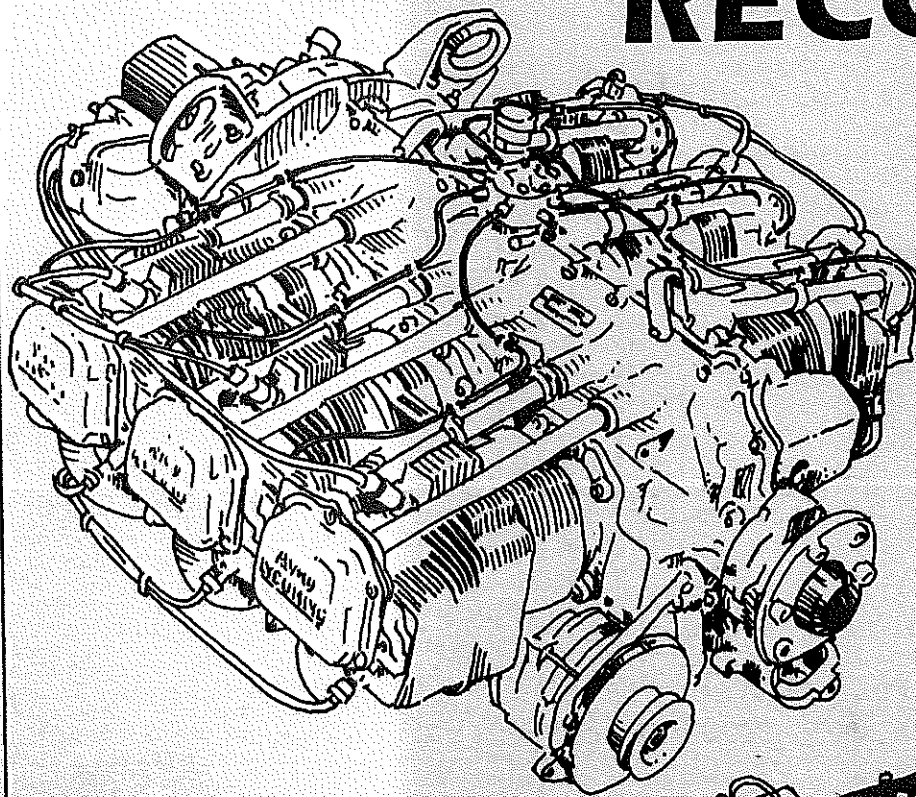


N100EM RIGHT ENGINE LOGBOOK

ENGINE MAINTENANCE RECORDS



1-800-624-6680

(IN NY 631-298-8330)

TELEDYNE MATTITUCK SERVICES, INC.

410 AIRWAY DRIVE, MATTITUCK, NY 11952

INSTALLED ON NICOEM @ HM 426.0

This is to certify that the engine described hereafter has been overhauled to manufacturer's new part limits by Teledyne Mattituck Services, Inc. Tested per FAA approved Process Specification 1012B. Engine disassembled, cleaned, and inspected in accordance with manufacturer's instructions. All steel parts magnafluxed. All Applicable Airworthiness Directives are in compliance. The engine, with respect to the work performed is airworthy and approved for return to service.

A description of these repairs is on file at this agency under:

JOB NO. 32461 DATED 31 AUG 07
 MFG. LYCOMING MODEL LT10-540-J2BD
 Serial No. RL-2965-68A Time in svc. 2046.3 HRS
 Cylinder Type NEW LYCO NITRIDE

TELEDYNE MATTITUCK SERVICES, INC.

FAA REPAIR STATION # T10R507Y
 AIRWAY DRIVE, MATTITUCK NY 11952



Authorized Signature _____

WORK ORDER

Work Order No. 32461 Customer AIR POWER
 Part No. LT10-540-J2BD Serial No. RL-2965-68A
 Nomenclature LYCOMING AIRCRAFT ENGINE

Description of work performed NEW LYCOMING CYLINDER ASSEMBLIES INSTALLED;

C/W.A.D. 91-08-07, 97-15-11, 2002-12-07,

2002-26-01, 2004-10-14

All work performed in accordance with applicable manufacturer's maintenance limits and test run

Date 8/31/07 Signed _____

TELEDYNE MATTITUCK SERVICES, INC.

FAA Repair Station T10R507Y

ENGINE OVERHAULED
 TO MFG NEW PARTS
 LIMITS AND TEST RUN

are New or Overhauled as
 nd installed on the engine.
 hauled accessories are in
 ogbook.

Serial No.		Status
SERVO	2524500-9 82526	
STARTER	149-NLR FNRO70708	N
ALT	ALUB521RS H052836	O
FUEL PUMP	RG 9080-J4A/m B-6293	O
MAG	BL-682910-18 G06JA057R	O
TURBO	409170-9001 1BR00057	O
CONTROLLER	470884-10 KER0133	O
CONTROLLER	470886-9002 CDO 2263	O
WASTEGATE	470818-9003 1DN00561	O

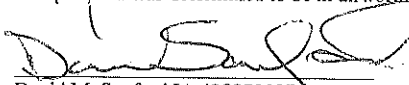


TELEDYNE MATTITUCK SERVICES, INC.

FAA REPAIR STATION T10R507Y

W.O. NO. 32461 DATE 31 AUG 07

Authorized Signature _____

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
DATE: 11-21-07		N100EM	ENGINE: RIGHT	
		TACH: 420.0	TSO:	TSN:
1. Installed SN RL2965-68A Engine 2. Installed new turbo tailpipe assm pn 40310-9 3. Installed new engine shock mounts J9613-29 4. Install new air filter element BA-7. 5. Installed new engine hose kit supplied by PHT 6. serviced with 12 qts AS 15w50 and 1 CH 48103 filter ground run and test flight satisfactory				
Performed annual inspection I/A/W Piper PA 31-350 M.M. and FAR 43appendix D. See AD listing for AD compliance. I certify this engine has been inspected I/A/W an annual inspect and was determined to be in airworthy condition.				
 David M. Sanford IA 428373097				
1-25-08	435.2	152		Changed oil, serviced w/ 12 qts AS 1550 Installed New Filter CH48103 David Sanford A&P 3032129
3-7-08	442.0			Installed New Vacuum pump P.N. 44100 S.N. 55529 David Sanford A&P 3032129

→ **AERO JACKSON** →
 JACKSON, MISSISSIPPI

N100EM Rt. engine Date May 15, 2008 Hourmeter 505.6

Replaced pushrod shroud seals p n LW-18661 on # 3 & # 5 cyl's. Groundran engine. Operational check OK. No leaks noted.

Sheldon A Burgess A&P 2159379

Sheldon A Burgess

DATE: 6-3-08

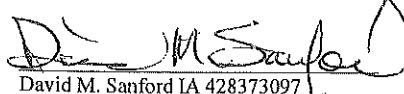
N100EM
TACH: 519.8

ENGINE: RIGHT
TSO: 99.6

TSN:

1. Install new air filter element BA-7.
2. Change oil and serviced with 12 qts AS 15w50 and 1 CH 48103 filter
3. Compression test 1. 79 2. 80 3. 80 4. 77 5. 79 6. 76 /80

Performed annual inspection I/A/W Piper PA 31-350 M.M. and FAR 43appendix D. See AD listing for AD compliance. I certify this engine has been inspected I/A/W an annual inspect and was determined to be in airworthy condition.


 David M. Sanford IA 428373097

SUB-TOTALS this page

TOTALS—Carry forward to next page

SERVICEABLE

Mfr. Kelly Aero Part No. 470886-9002

Name Controller Serial QHR0110

The aircraft component identified above was completely overhauled in accordance with the manufacturer's specifications and with the 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 No. 37773

Date 2-6-08 Signed [Signature]

(Signature of Authorized Individual)

MAIN TURBO SYSTEMS, INC.

234 Cotta Ct • Visalia, CA 93292

Phone (559) 635-3322 • Repair Station #MAMR190K • FAX (559) 627-1960

WORK PERFORMED—
NO. OF PERSON PERFORMING WORK

TSN:

Q AERO JACKSON Q
JACKSON, MISSISSIPPI

Date 8-21-2008 Engine Log Book Entry N100EM Hobbs-556.3

Replaced intake and exhaust pushrod seals and valve cover gasket on #6 cylinder Right engine, washed engine and cowling, ground run no leaks found at this time.

Sean Cermak
A&P 2791027 IA

[Signature]

Right Engine Log entry for N100EM

Date: 9-25-08

Hobbs: 573.8

Drain engine oil. Service engine with 12 qts ASI5W50 oil. Install new CH48103-1 oil filter, torque and safety. Wash engine. Rig and adjust density controller as per Textron Lycoming service instructions, SI 1187. Adjust oil pressure relief valve to required pressures. Rig and adjust engine throttle control. Adjust idle mixture and idle stop. Rig and adjust propeller governor control. Perform [unclear] noted. All work was performed. '61 488, section 8 and Te

Q AERO JACKSON Q
JACKSON, MISSISSIPPI

Date 11-17-2008 Engine Log Book Entry N100EM Hobbs-601.9

Replaced left and right engines prop control rod end boot, P/N 553-330

Sean Cermak
A&P 2791027 IA

[Signature]

10/2008 HM 60

COMPLIED WITH AD 2008-14-07 AMN 39-15602 FUEL INJECTOR LINE INSPECTION. 1/4W LYCOMING SB 342E, NO DEFECTS OR MISSING CLAMPS NOTED. NEXT TIME @ HM 718 OR WHEN MAINTENANCE IS PERFORMED WHICH MIGHT SURB THE FUEL INJECTOR LINES. COMPLIED WITH AD 2008-18-17 AMN 39-15471 BY CHECKING THE TURBO S/N (409170-9001/13R0057) AGAINST THE SUSPECT LIST OF KELLEY SB 031 (DATED 2-28-08) 1/4W ACTION POINT (12), SERIAL # NOT NOTED, THUS A.D. DOES NOT APPLY. COMPLIED WITH AD 2008-18-14 AMN 39-15466 BY INSPECTION OF THE SERVO PLUG P/N 383493 FOR LOOSENESS 1/4W (F), NO LOOSENESS WAS NOTED, AS PER SECTION (i) THE NEXT INSPECTION IS DUE AT OIL CHANGE OR HM 668 WHICHEVER OCCURS FIRST. [Signature] DAVID C. ENTREKIN A&P 42818879

SUB-TOTALS this page

TOTALS—Carry forward to next page

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
12/12/2008	HM 618			TOTALS brought forward from previous page
DRAINED ENGINE OIL, INSPECTED FILTER, NO METAL NOTED. SECURED MID DRAIN OIL SAMPLE. INSTALLED A NEW AA48103 FILTER & SERVICED SUMP WITH AEROSHELL 15W50 ENGINE OIL. INSPECTED SECTION P.O. SCREEN, NO MATERIAL NOTED. CLEANED CAPPED & TESTED SPARK PLUGS, ROTATED & REINSTALLED RESET MAGIC ENGINE TIMING TO 20° BTDC. WASHED ENGINE, GROUND RAN & LEAK CHECKED, NO LEAKS NOTED. <i>David C. Entrek</i> DAVID C. ENTREK / AEP428118879				

4/13/2009; N100EM, drained oil, removed and inspected oil filter (no metal); serviced with 11 qts Aeroshell 15W-50 and 48103 oil filter. Cleaned engine and leak ck ok. CW AD on fuel servo, NA, and no defects, CW AD on fuel lines and clamps and no defects found. Applied mouse milk to slip joints and waste gates. Engine approved for RTS. END—
Gerry Mosley *Gerry Mosley* AP27318401A

Q AERO JACKSON Q

JACKSON, MISSISSIPPI

N100EM

Date 5-19-09

Hourmeter 683.0

Replaced rt. engine airpump with overhauled unit from Aero Accessories. Installed p/n 442CW-6 s/n 63936. WO # 63336. Grd ran engine operational check OK. No leaks noted.

Sheldon A Burgess A&P 2159379

Sheldon A Burgess

Q AERO JACKSON Q

JACKSON, MISSISSIPPI

N100EM

Date 6-12-09

Hourmeter 686.5

Replaced rt. main gear squat switch. p/n 71605-002. Adjusted per maintenance manual. Replaced lt. fuel boost pump. Removed p/n 2B6-64 s/n 5AR-25. Installed p/n 2B6-64 s/n 1AJ-66. Operational check OK. No leaks noted.

Sheldon A Burgess A&P 2159379

Sheldon A Burgess

SUB-TOTALS this page

TOTALS—Carry forward to next page

No. _____

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
				<p style="text-align: center;">Q AERO JACKSON Q JACKSON, MISSISSIPPI</p> <p>N100EM Date 6-25-09 Hourmeter 1689.5 <i>Typo - 689.5</i></p> <p>Replaced Rt. engineairpump. Removed AA442CW-6 s/n 56183 and installed AA442CW-6 s/n 56526. Cleaneddual stage regulator valve. Operational check OK.</p> <p><i>Sheldon A Burgess</i> Sheldon A Burgess A&P 2159379</p> <p style="text-align: center;">JACOBS AIRCRAFT COMPANY / JACKSON, MS. 530 TERMINAL DRIVE 39209 / 601 948 1601</p> <p>N100EM RIGHT ENGINE LOGBOOK ENTRY 7-20-09 HOUR METER 691.4 ENGINE TOTAL TIME 2909.9 TOTAL TIME SINCE OVERHAUL 271.4 Oil filter inspected, no metal found. New oil filter installed. Checked compression: (1)78 /80 (2) 78/80 (3) 76/80 (4) 76/80 (5) 77/80 (6) 78/80. Serviced engine with 12qts. Aeroshell 15W50 oil. Replaced Brackett Air Filter element. Cleaned fuel injector nozzles. 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 Z Cox</i></p> <p style="text-align: center;">JACOBS AIRCRAFT COMPANY / JACKSON, MS. 530 TERMINAL DRIVE 39209 / 601 948 1601</p> <p>N100EM RIGHT ENGINE LOGBOOK ENTRY 1/22/2010 HOUR METER 741.6</p> <p>Replaced all push rod seals, 24ea P/N LW18661, replaced all exhaust flange gaskets, 12 ea. P/N LW15619 and replaced valve rocker cover gaskets, 6ea. P/N 71450. Engine was washed and ground run, no leaks noted.</p> <p>David Townes Cox A&P 2679578 <i>David Z Cox</i></p> <p style="text-align: center;">JACOBS AIRCRAFT COMPANY/ JACKSON, MS 531 TERMINAL DRIVE 39209 / 601-948-1601</p> <p>N100EM 2-15-10 RIGHT ENGINE LOGBOOK ENTRY HOUR METER 746.6</p> <p>Oil drained, Oil filter removed, cut open, and inspected. No metal found. New oil filter installed. Serviced with 12qts. Aeroshell 15W50 oil. Engine ground run, no leaks noted.</p> <p>David Townes Cox <i>D. J. Cox</i></p>

JACOBS AIRCRAFT COMPANY / JACKSON, MS.

530 TERMINAL DRIVE 39209 / 601 948 1601

Page No. _____

DATE

N100EM RIGHT ENGINE LOGBOOK ENTRY 8-3-10 HOUR METER 794.4
ENGINE TOTAL TIME 3012.9 ENGINE TOTAL TIME SINCE O/H 374.4

Oil filter inspected, no metal found. New oil filter installed. Checked compression:
(1)76/80 (2)76/80 (3)74/80 (4) 76/80 (5)77/80 (6) 77/80. Serviced engine with
12qts. Aeroshell 15W50 oil. Replaced Brackett Air Filter element. Lubed all exhaust
slip joints and waste gate valve. Cleaned and gapped spark plugs. Engine washed
and ground run, operational check OK, no leaks noted.

I certify that this ENGINE has been inspected in accordance with an ANNUAL
INSPECTION and found to be in airworthy condition.

David Townes Cox IA 2679578

David Townes Cox

PERFORMED—
ON PERFORMING WORK

JACOBS AIRCRAFT COMPANY/ JACKSON, MS

531 TERMINAL DRIVE 39209 / 601-948-1601

N100EM 1-11-11 RIGHT ENGINE LOGBOOK ENTRY HOUR METER 839.3

Engine ground run. Oil drained, Oil filter removed, cut open, and inspected. No
metal found. New oil filter installed. Serviced with 12qts. Aeroshell 15W50 oil.
Replaced 2ea. Clamps on turbocharger inlet hose. Engine washed and ground run, no
leaks noted.

David Townes Cox
A&P 2679578

David Townes Cox

JACOBS AIRCRAFT COMPANY/ JACKSON, MS

531 TERMINAL DRIVE 39209 / 601-948-1601

N100 EM 4-25-11 RIGHT ENGINE LOGBOOK ENTRY HOUR METER 889.8

Engine ground run. Oil drained, Oil filter removed, cut open, and inspected. No
metal found. New oil filter installed. Serviced with 12qts. Aeroshell 15W50 oil.
Spark plugs cleaned, gapped, and tested. Installed missing bolt on turbo mount.
Replaced breather tube elbow. Replaced air-oil separator gasket. C/W AD 2008-14-
07 by inspection of fuel injector lines and clamps per AD. Replaced throttle body
plug gasket, installed P/N 2577258 gasket, torqued plug and saftied per AD 2009-02-
03 (I). No further action required of this AD. Engine washed and ground run, no leaks
noted.

David Townes Cox
A&P 2679578

David Townes Cox

JACOBS AIRCRAFT COMPANY / JACKSON, MS.

530 TERMINAL DRIVE 39209 / 601 948 1601


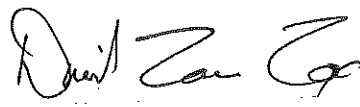
N100EM RIGHT ENGINE LOGBOOK ENTRY 9-8-11 HOUR METER 930.8
ENGINE TOTAL TIME 3149.3 ENGINE TOTAL TIME SINCE O/H 510.8


Oil filter inspected, no metal found. New oil filter installed. Checked compression:
(1) 76/80 (2) 78/80 (3) 74/80 (4) 76/80 (5) 76/80 (6) 78/80. Serviced engine with
12qts. Aeroshell 15 W50 oil. Replaced Brackett Air Filter element. Replaced
hydraulic filter. All spark plugs replaced with new. Replaced TIT probe. Engine
washed and ground run, operational check OK, no leaks noted.

I certify that this ENGINE has been inspected in accordance with an ANNUAL
INSPECTION and found to be in airworthy condition.

David Townes Cox

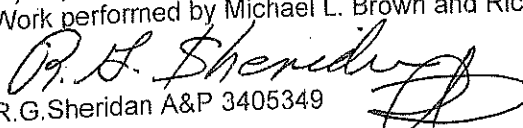
DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page
				JACOBS AIRCRAFT COMPANY/ JACKSON, MS 531 TERMINAL DRIVE 39209 / 601-948-1601
				N100EM 11-8-11 RIGHT ENGINE LOGBOOK ENTRY HOUR METER 978.3
				Engine ground run. Oil drained, Oil filter removed, cut open, and inspected. No metal found. New oil filter installed. Serviced with 12qts. Aeroshell 15W50 oil. Engine washed and ground run, no leaks noted.
				David Townes Cox A&P 2679578
				JACOBS AIRCRAFT COMPANY/ JACKSON, MS 531 TERMINAL DRIVE 39209 / 601-948-1601
				N100EM 4-4-2012 RIGHT ENGINE LOGBOOK ENTRY HOUR METER 1025.5
				Engine ground run. Oil drained, Oil filter removed, cut open, and inspected. No metal found. New oil filter installed. Serviced with 12qts. Aeroshell 15W50 oil. C/W AD 2011-26-04 (h), Engine washed and ground run, no leaks noted.
				David Townes Cox A&P 2679578
				JACOBS AIRCRAFT COMPANY/ JACKSON, MS 531 TERMINAL DRIVE 39209 / 601-948-1601
				N100EM 7-9-12 RIGHT ENGINE LOGBOOK ENTRY HOUR METER 1081.0
				Engine ground run. Oil drained, Oil filter removed, cut open, and inspected. No metal found. New oil filter installed. Serviced with 12qts. Aeroshell 15W50 oil. Engine washed and ground run, no leaks noted.
				David Townes Cox A&P 2679578
				JACOBS AIRCRAFT COMPANY / JACKSON, MS. 530 TERMINAL DRIVE 39209 / 601 948 1601
				N100EM RIGHT ENGINE LOGBOOK ENTRY 10-4-2012 HOUR METER 1109.4 ENGINE TOTAL TIME 3327.9 ENGINE TOTAL TIME SINCE O/H 689.4
				Oil filter inspected, no metal found. New oil filter installed. Checked compression: (1) 78/80 (2) 76/80 (3) 78/80 (4) 78/80 (5) 74/80 (6) 76/80. Serviced engine with 12qts. Aeroshell 15 W50 oil. Replaced Brackett Air Filter element. Replaced hydraulic filter. All spark plugs cleaned and gapped. Tightened all oil drain tube hoses. Engine washed and ground run, operational check OK, no leaks noted.
				I certify that this ENGINE has been inspected in accordance with an ANNUAL INSPECTION and found to be in airworthy condition.
				David Townes Cox IA 2679578


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
				N 100EM 2-26-13 RIGHT ENGINE LOGBOOK ENTRY HM 1141.8
				Engine ground run. Oil drained, Oil filter removed, cut open, and inspected. No metal found. New oil filter installed. Serviced with 12qts. Aeroshell 15W50 oil. Engine washed and ground run, no leaks noted.
				David Townes Cox A&P 2679578 
				N 100EM 2-26-13 RIGHT ENGINE LOGBOOK ENTRY HM 1162.6
				Replaced all rocker cover gaskets. Installed 6ea. RG-71450 silicone gaskets per manufactures instructions. Oil pressure raised per pilot instructions. Replaced oil filter adapter gasket P/N 06B23072. Engine washed and ground run, no leaks noted.
				David Townes Cox A&P 2679578 

Madison Air Center, 7450 Old Canton Rd., Madison, MS, 39110 (601) 853-9358 

Right Engine Maintenance Entry N100EM May 14, 2013
Piper PA31-350 Navajo S/N: 31-8152196 Hobbs: 1170.1

- (1) Change oil, cut open filter and inspected for metal, non found. Serviced engine with 12 quarts of 15W50 Aeroshell oil and 1 CH48103-1 champion oil filter.
 - (2) Replaced oil filter housing gasket one each P/N: 06B23072.
 - (3) Removed four rocker covers, cleaned surfaces and gaskets re-installed checked for leaks.
 - (4) Tightened all oil return lines.
 - (5) Ran engine inspected for leaks none found.
 - (6) Replaced intake gasket, P/N: 71973, on #3 cylinder.
 - (7) Replaced wire tie on prop blade S/N: 4488.
- Work performed by Michael L. Brown and Richard G. Sheridan. END.

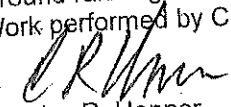

 R.G. Sheridan A&P 3405349

Madison Air Center, 7450 Old Canton Rd., Madison, MS, 39110 (601) 853-9358 

Right Engine Maintenance Entry N100EM June 16, 2013
Piper PA31-350 Navajo S/N: 31-8152196 Hobbs: 1174.0

- (1) Replaced rocker cover gaskets on cylinders 1,3,4, and 5.
 - (2) Removed oil cooler, flushed and reinstalled.
 - (3) Replaced # 5 cylinder intake gasket and "O" ring.
 - (4) Installed new silicone cowl seals on all right engine baffling. Kit P/N FMB2, Airforms Inc.
 - (5) Verified right engine oil pressure gauge readings with calibrated pressure gauge.
 - (6) Replaced missing stud on right engine cowl.
- Ground ran engine and leak checked. No leaks noted. Reinstalled cowl.

Work performed by Charles R. Hopper, Joshua B. Miley and Richard G. Sheridan. END.

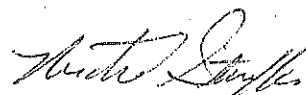

 Charles R. Hopper
 AP 3564582

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
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N100EM	Model: PA-31-350	SN: 31-8152196
Hobbs: 1170.3	Tach: N/A	Date: 6-27-13

RIGHT ENGINE ENTRY

Replaced magneto P/N 10-682910-18R S/N B-02031 Overhauled by Kelly Aerospace Systems, Inc. See 8130-3 W/O #KES1302-50 Ran engine Op's check normal no leaks noted Ref. Worldwide W/O #96963



Michael Stauffer
AP493769545

Madison Air Center, 7450 Old Canton Rd., Madison, MS, 39110 (601) 853-9358 

Right Engine Maintenance Entry N100EM September 25, 2013
Piper PA31-350 Navajo S/N: 31-8152196 Hobbs: 1197.3

Removed turbo oil supply line and scavenge flex coupling. Capped scavenge line. Soaked circuit and turbo bearings overnight with Berryman's Chem-tool solvent in order to de-coke bearings. Purged circuit with air and primed turbo with fresh engine oil supplied under pressure. Replaced flex coupling with a new section of Mil-H-6000 hose and installed two new worm clamps. Repaired oil leaks at #2 pushrods. Reconnected supply line, ground ran and leak checked, no leaks were noted from the affected areas.

David Entrekin A&P 3398557 

N100EM RIGHT ENGINE LOGBOOK ENTRY 11-1-13 HOUR METER 1206.6
ENGINE TOTAL TIME 3425.1 ENGINE TOTAL TIME SINCE O/H 786.6

Oil filter inspected, no metal found. New oil filter installed. Checked compression: (1) 76/80 (2) 76/80 (3) 76/80 (4) 76/80 (5) 72/80 (6) 78/80. Serviced engine with 12qts. Aeroshell 15W50 oil. Replaced Brackett Air Filter element. Cleaned and gapped spark plugs. Engine washed and ground run, operational check OK, no leaks noted.

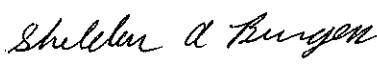
I certify that this ENGINE has been inspected in accordance with an ANNUAL INSPECTION and found to be in airworthy condition.

David Townes Cox IA 2679578 

→ **AERO JACKSON** →
JACKSON, MISSISSIPPI

N100EM Rt. Eng. Date 10-17-2014 Hourmeter 1269.7

Changed oil and filter. Cut old filter open and inspected. No metal found. Serviced engine with 12qt. Aeroshell 15W50 oil. Replaced one cowling fastener and receptacle. Washed and grd. ran engine. No leaks noted.

Sheldon A Burgess A&P 2159379 

TOTALS—Carry forward to next page

DATE

N100EM RIGHT ENGINE LOGBOOK ENTRY 12-15-2014 HOUR METER 1287.6
ENGINE TOTAL TIME 3506.1 ENGINE TOTAL TIME SINCE O/H 867.6

PERFORMED—
SON PERFORMING WORK

Oil filter inspected, no metal found. New oil filter installed. Checked compression:
(1) 78/80 (2) 78/80 (3) 72/80 (4) 76/80 (5) 72/80 (6) 76/80. Serviced engine with
12qts. Aeroshell 15W50 oil. Propeller removed, overhauled by South Coast
Propellers, and reinstalled. Replaced Brackett Air Filter element. Replaced hydraulic
filter. All spark plugs cleaned and gapped. Engine washed and ground run,
operational check OK, no leaks noted.

I certify that this ENGINE has been inspected in accordance with an ANNUAL
INSPECTION and found to be in airworthy condition.

David Townes Cox IA 2679578

David Townes Cox

N100EM RH ENG HOBBS 1336.5



5410 OPERATIONS ROAD, MONROE, LA 71203 DATE 8-19-15
(318) 387-0222 Repair Station #3MIR878B

Drained oil removed and inspected oil filter. Installed new oil filter p/n CH48103-1 and
serviced with 12 Qts Aeroshell 20W50. Installed new valve cover gaskets. Washed and ran.
Operational check ok.

The aircraft, airframe, aircraft engine, propeller or appliance identified above
was repaired and inspected in accordance with current regulations of the FAA,
manufacturers maintenance manual and is approved for return to service.
JPS AVIATION, LLC, FAA APPROVED REPAIR STATION # 3MIR878B
MONROE REGIONAL AIRPORT, MONROE, LOUISIANA

SIGNED

David Townes Cox

WO# 13950

N100EM RIGHT ENGINE LOGBOOK ENTRY 3-7-2016 HOUR METER 1376.7
ENGINE TOTAL TIME 3595.2 ENGINE TOTAL TIME SINCE O/H 956.7

Oil filter inspected, no metal found. New oil filter installed. Checked compression:
(1) 76/80 (2) 76/80 (3) 74/80 (4) 74/80 (5) 70*/80 (6) 76/80. #5 cylinder replaced
with overhauled cylinder assembly from Gibson Aviation. See Form 8130-3, Invoice
#105167, * cold compression of replaced cylinder. Serviced engine with 11qts.
Phillips 20W50 oil. Replaced Brackett Air Filter element. Replaced hydraulic filter.
All spark plugs cleaned and gapped. Engine washed and ground run, operational
check OK, no leaks noted.

I certify that this ENGINE has been inspected in accordance with an ANNUAL
INSPECTION and found to be in airworthy condition.

David Townes Cox IA 2679578

David Townes Cox

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**HAWKINS JET CENTER**

JACKSON, MISSISSIPPI

DA1 N100EM

Rt. Eng.

Date 10-24-2016

Hourmeter 1421.5

PERFORMED—
PERSON PERFORMING WORK

Changed oil and filter. Cut old filter open and inspected. No metal found. Serviced engine with 12 qt. Phillips 20W50 X/C oil. Washed and grd. ran engine. No leaks noted.

Sheldon A Burgess A&P 2159379

Sheldon A Burgess**Hawkins Jet Center**

JACKSON, MISSISSIPPI

N100EM

Rt Engine

Date 11-21-16

Hourmeter 1435.0

Reinstalled fuel servo Sn 82526 after repair by D&G Supply. Removed fuel injectors, cleaned, inspected and reinstalled with new o-rings.

Brian Goins AP3738075

Brian Goins**HAWKINS JET CENTER**

JACKSON, MISSISSIPPI

N100EM

**RIGHT
ENGINE**

Date 11-28-2016

Hourmeter 1435.8

Swapped lt and rt fuel servos. s/n 74591 installed on rt eng. Leak and operational check OK.

Sheldon A Burgess A&P 2159379

Sheldon A Burgess

Lycoming

IO-540

04/17/2017

Tach: 1454.0

Received cylinder for repair. Clean and inspected cylinder. Honed and replaced exhaust guide in. Ground valves and seats. Cleaned piston. Prepared cylinder for installation.

Sheldon A Burgess
APR 20 2017

N100EM RIGHT ENGINE LOGBOOK ENTRY 4-12-2017 HOUR METER 1454.0

ENGINE TOTAL TIME 3672.7 ENGINE TOTAL TIME SINCE O/H 1034.0

Oil filter inspected, no metal found. New oil filter installed. Checked compression: (1) 72/80 (2) 74/80 (3) 76/80 (4) 78/80 (5) 78/80 (6) 76/80. * #3 cylinder removed and repaired with new exhaust valve guide and serviceable exhaust valve. Serviced engine with 11 qts. Phillips 20W50 oil. Replaced Brackett Air Filter element. Replaced hydraulic filter. All spark plugs cleaned and gapped. Engine washed and ground run, operational check OK, no leaks noted.

1 PINT CAMGUARD ADDED

I certify that this ENGINE has been inspected in accordance with an ANNUAL INSPECTION and found to be in airworthy condition.

David Townes Cox IA 2679578

David Townes Cox**HAWKINS JET CENTER**

JACKSON, MISSISSIPPI

N100EM

Rt. Eng.

Date 11-10-2017

Hourmeter 1494.1

Changed oil and filter. Cut old filter open and inspected. No metal found. Serviced engine with 12 qt. Phillips 20W50 X/C oil with CamGuard additive. Grd. ran engine. No leaks noted.

Brian Goins AP3738075

Brian Goins

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Model: PA-31-350
S/N: 31-8152196
Reg. No: N100EM



Maintenance Accomplished:
-2001-Removed L/H Starter P/N 149-NL S/N FN-
Good at this time.
-2002-Removed R/H Starter P/N 149-NL S/N FN-
Ops Checks Good at this time.

Signed: *Cody Elliott*
Technician: Cody Elliott

5K4
STARTER
8/30
1/9/18

4/12/2018 N100EM Hobbs: 15

Replaced right engine #3 cylinder gasket. Replaced #2 intake gasket cover screw and tightened all. Ran right engine for ops and

Remm Randy Fisher A&P 3571854

N100EM RIGHT ENGINE LOGBOOK ENTRY 5-18-2018 HOUR METER 1528.6
ENGINE TOTAL TIME 3154.9 ENGINE TOTAL TIME SINCE O/H 1108.6
Oil filter inspected, no metal found. New oil filter installed. Checked compression: (1) 70/80 (2) 76/80 (3) 68/80 (4) 74/80 (5) 76/80 (6) 76/80. Serviced engine with 11 qts. Phillips 20W50 oil. Replaced Brackett Air Filter element. Replaced all spark plugs. Engine washed and ground run, operational check OK, no leaks noted.

1 PINT CAMGUARD ADDED
I certify that this ENGINE has been inspected in accordance with an ANNUAL INSPECTION and found to be in airworthy condition.

David Townes Cox IA 2679578

David Zee Zap

N100EM RIGHT ENGINE LOGBOOK ENTRY 6-20-2019 HOUR METER 1601.2
ENGINE TOTAL TIME 3227.5 ENGINE TOTAL TIME SINCE O/H 1181.2
Oil filter inspected, no metal found. New oil filter installed. Checked compression: (1) 66/80 (2) 75/80 (3) 72/80 (4) 76/80 (5) 74/80 (6) 70/80. Serviced engine with 11 qts. Phillips 20W50 oil. Replaced Brackett Air Filter element. Cleaned and gapped spark plugs. Engine washed and ground run, operational check OK, no leaks noted.

ADDED 1 PINT CAMGUARD
I certify that this ENGINE has been inspected in accordance with an ANNUAL INSPECTION and found to be in airworthy condition.

David Townes Cox IA 2679578

David Zee Zap

→ HAWKINS JET CENTER →

JACKSON, MISSISSIPPI

N100EM

Rt Eng.

Date 1-16-2020

Hourmeter 1607.9

1187.9 SMOH

Changed oil and filter. Cut old filter open and inspected. No metal found. Serviced engine with 11 qt. Phillips 20W50 X/C oil and one can of Cam Guard. Washed and grd. ran engine. No leaks noted. Sheldon A Burgess A&P 2159379 *Sheldon A Burgess*

→ HAWKINS JET CENTER →

JACKSON, MISSISSIPPI

N100EM Engine RT Date 10-10-18 Tach 1561.5
Changed oil and filter. Inspected oil filter with no metal found at this time.
Filled with 12 qts of Phillips XC 20W-50. Ground ran with no leaks noted at this time.
Joshua Speer P#3952535
1 PINT CAMGUARD ADDED

Model: PA-31-350
S/N: 31-8152196
Reg. No: N100EM



CORPORATE
FLIGHT MANAGEMENT
276 Doug Warpole Road
Smyrna, TN 37167
615.534.4600

Hobbs: 3070.9

ON PERFORMING WORK

Airframe

Maintenance Accomplished:

-2001-Removed L/H Starter P/N 149-NL S/N FN-330762 and Installed New Starter P/N 149-NL S/N H-R110314 Ref AMM 80-00 Ops checks Good at this time.

-2002-Removed R/H Starter P/N 149-NLR S/N FNR-090708 and Installed New Starter P/N 149-NLR S/N H-R092149 Ref AMM 8-00 Ops Checks Good at this time.

Signed: *Cody Elliott*
Technician: Cody Elliott

Certificate No. A & P 3834581

4/12/2018 N100EM Hobbs: 1525.9

Replaced right engine #3 cylinder intake oring and gasket. Replaced #2 intake gasket. Replaced 1 valve cover screw and tightened all valve cover screws. Ran right engine for ops and leak check. OK

Randy Fisher Randy Fisher A&P 3571854

N100EM RIGHT ENGINE LOGBOOK ENTRY 5-18-2018 HOUR METER 1528.6
ENGINE TOTAL TIME 3154.9 ENGINE TOTAL TIME SINCE O/H 1108.6

Oil filter inspected, no metal found. New oil filter installed. Checked compression: (1) 70/80 (2) 76/80 (3) 68/80 (4) 74/80 (5) 76/80 (6) 76/80. Serviced engine with 11 qts. Phillips 20W50 oil. Replaced Brackett Air Filter element. Replaced all spark plugs. Engine washed and ground run, operational check OK, no leaks noted.

1 PINT CAMGUARD ADDED

I certify that this ENGINE has been inspected in accordance with an ANNUAL INSPECTION and found to be in airworthy condition.

David Townes Cox IA 2679578

David Z...

N100EM RIGHT ENGINE LOGBOOK ENTRY 6-20-2019 HOUR METER 1601.2
ENGINE TOTAL TIME 3227.5 ENGINE TOTAL TIME SINCE O/H 1181.2

Oil filter inspected, no metal found. New oil filter installed. Checked compression: (1) 66/80 (2) 75/80 (3) 72/80 (4) 76/80 (5) 74/80 (6) 70/80. Serviced engine with 11 qts. Phillips 20W50 oil. Replaced Brackett Air Filter element. Cleaned and gapped spark plugs. Engine washed and ground run, operational check OK, no leaks noted.

ADDED 1 PINT CAMGUARD

I certify that this ENGINE has been inspected in accordance with an ANNUAL INSPECTION and found to be in airworthy condition.

David Townes Cox IA 2679578

David Z...

→ HAWKINS JET CENTER →

JACKSON, MISSISSIPPI

N100EM

Rt Eng. Date 1-16-2020

Hourmeter 1607.9

1187.9 SMOH

Changed oil and filter. Cut old filter open and inspected. No metal found. Serviced engine with 11 qt. Phillips 20W50 X/C oil and one can of Cam Guard. Washed and ground engine. No leaks noted.

→ HAWKINS JET CENTER →

JACKSON, MISSISSIPPI

N100EM Engine RT Date 10-10-18 Tach. 1561.5
Changed oil and filter. Inspected oil filter with no metal found at this time.
Filled with 12 qts of Phillips XC 20W-50. Ground ran with no leaks noted at this time.
Joshua Speer P#3952535
1 PINT CAMGUARD ADDED

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
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N100EM RIGHT ENGINE LOGBOOK ENTRY 7-15-2020 HOUR METER 1614.7
 ENGINE TOTAL TIME 3241.0 ENGINE TOTAL TIME SINCE O/H 1194.7
 Oil filter inspected, no metal found. New oil filter installed. Checked compression:
 (1) 68/80 (2) 76/80 (3) 74/80 (4) 76/80 (5) 76/80 (6) 70/80. Serviced engine with
 11qts. Phillips 20W50 oil. Added 1 pint Camguard. Magneto overhauled by RLB
 Accessory, W/O 20255. Replaced Brackett Air Filter element. Cleaned and gapped
 spark plugs. Repaired baffle at #2 cylinder. Engine washed and ground run,
 operational check OK, no leaks noted.

I certify that this ENGINE has been inspected in accordance with an ANNUAL
 INSPECTION and found to be in airworthy condition.

David Townes Cox IA 2679578 *Dail Zan Zap*

7-15-2020 HM 1614.7
 Replaced Magneto CAPACITORS Replaced
 with MAGNETO OVERHAUL
Dail Zan Zap
 A:P 2679578

→ HAWKINS JET CENTER →
 JACKSON, MISSISSIPPI

N100EM Date 3-26-21 Engine RT Hobbs. #1637.0
 Changed oil and filter. Inspected old filter with no metal found at this time. Filled with
 11 Qts of phillips xc 20W-50 and one bottle of cam Guard. Ground ran with no leaks detected
 at this time.
 Joshua Speer A&P 3952535 *[Signature]*

N100EM RIGHT ENGINE LOGBOOK ENTRY 8-18-2021 HOUR METER 1649.3
 ENGINE TOTAL TIME 3275.6 ENGINE TOTAL TIME SINCE O/H 1229.3
 Oil filter inspected, no metal found. New oil filter installed. Checked compression:
 (1) 62/80 (2) 76/80 (3) 74/80 (4) 76/80 (5) 70/80 (6) 72/80. Serviced engine with
 11qts. Phillips 20W50 oil. Replaced Brackett Air Filter element. Cleaned and gapped
 spark plugs. C/W AD 15/19/07 on fuel injector lines and clamps. Replaced 1ea.
 Breather tube elbow P/N 558-963. Engine washed and ground run, operational check
 OK, no leaks noted. ADD 1 pint CAMGUARD

I certify that this ENGINE has been inspected in accordance with an ANNUAL
 INSPECTION and found to be in airworthy condition.

David Townes Cox IA 2679578 *Dail Zan Zap*

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→ HAWKINS JET CENTER →

JACKSON, MISSISSIPPI

N100EM Rt. Eng. Date 7-11-2022 Hour meter 1664.5

Changed oil and filter. Cut old filter open and inspected. No metal found. Serviced engine with 12 qt. Phillips 20W50 X/C oil and one bottle of Cam Guard. Replaced starter with p/n 149NLR/EC s/n H-W021789 starter. Repaired magneto retard points 'P' lead. Washed and grd. ran engine. No leaks noted. Sheldon A Burgess A&P 2159379 *Sheldon A Burgess*

OF WORK PERFORMED—
E NO. OF PERSON PERFORMING

vious page

→ HAWKINS JET CENTER →

JACKSON, MISSISSIPPI

N100EM Rt. Engine Date 10-1-2022 TT 3293.7 TSO 1247.4 Hm 1667.4

Compression check (1) 75/80 (2) 71/80 (3) 74/80 (4) 74/80 (5) 72/80 (6) 70/80. Oil not changed at this time. Cleaned and gapped spark plugs. Fuel strainer cleaned. Repaired baffles as needed. Engine shock mounts replaced. Replaced alternator. Installed p/n ALU-8521RS s/n H-W090674. Cleaned and painted engine mount as needed. C/W AD2013-10-04 Exhaust inspection. Due ea. 60Hrs or 6 months. C/W AD2015-19-07 Fuel injector line inspection. Magneto timing checked and adjusted. Pressure tested exhaust system. Brackett filter element replaced p/n BA-7. Engine washed and ground ran. Operational checks OK. No leaks noted.

I certify that this engine has been inspected in accordance with an ANNUAL inspection and was determined to be in airworthy condition. Sheldon A Burgess A&P 2159379 IA *Sheldon A Burgess*

→ HAWKINS JET CENTER →

JACKSON, MISSISSIPPI

N100EM Rt. Eng. Date 5-5-2023 Hourmeter 1689.4

Changed oil and filter. Cut old filter open and inspected. No metal found. Serviced engine with 11 qt. Phillips 20W50 X/C and CamGuard additive. Grd. ran engine. No leaks noted.

John Snazelle A&P 3841033 *John Snazelle*

→ HAWKINS JET CENTER →

JACKSON, MISSISSIPPI

N100EM Rt. Engine Date 11-1-2023 TT 3315.7 TSO 1269.4 Hm 1689.4

Compression check (1) /80 (2) 76/80 (3) /80 (4) 76/80 (5) 72/80 (6) 67/80. Removed #1 and #3 cylinders and replaced with servicable cylinders, pistons, and new rings. Replaced cylinder #3 Intake pushrod with servicable. Dry tappet clearance checked and in spec. Replaced all valve cover gaskets with new rubber. Replaced #3 cylinder fuel line with new P/N LW-12098. Drained oil and inspected filter, no metal noted. Serviced engine with 12 qts of 20-50XC and new filter. Cleaned and gapped spark plugs. Fuel strainer cleaned. Replaced engine driven fuel pump with overhauled pump P/N 200F-5004 S/N H-ZCN096FP. Replaced fuel pump adapter seal P/N STD-213 and gasket. C/W AD2013-10-04 Exhaust inspection. Due ea. 60Hrs or 6 months. Replaced upper P/N 40310-10 and lower P/N 40310-09 tail pipe with new. Replaced belts with new P/N LW-18129, P/N 37819774-412. Replaced brushes in prop brush block P/N 3E1443-1. Replaced all engines hoses with new hose kit built by AERO AVIATION. REF: H50140-1. C/W AD2015-19-07 Fuel injector line inspection. Magneto timing checked and adjusted. Serviced AC with 4 cans of R134A. Pressure tested exhaust system. Brackett filter element replaced p/n BA-7. Engine washed and ground ran. Operational checks OK. No leaks noted.

I certify that this engine has been inspected in accordance with an ANNUAL inspection and was determined to be in airworthy condition. John Snazelle A&P 3841033 IA *John Snazelle*

It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the one specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s) as specified in Block 1. Statements in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must conform to the national regulations by the user/installer before the aircraft may be flown.

User/Installer Responsibilities

AUTHORIZED
FAA Form 8130-2

1. Approving National Aviation Authority/Country:
FAA United States

4. Organization

7

DATE

→ **HAWKINS SERVICE CENTER** →
JACKSON, MISSISSIPPI

→ 7276.3 TTAF
1282.1 SMOH
ING WORK

N100EM RT. Eng. Date 2-26-2024 Hourmeter: 1702.1

Changed oil and filter. Cut old filter open and inspected. No metal found. Serviced engine with 12 qt. Phillips 20W50 X/C. Grd. ran engine. No leaks noted.

John Snazelle A&P 3841033 *John Snazelle*

→ **HAWKINS SERVICE CENTER** →
JACKSON, MISSISSIPPI

N100EM Rt Engine Date 3-18-2025 TT 3328.9 Hm 1702.6 TSO 1282.6

Compression check (1) 70/80 (2) 71/80 (3) 72/80 (4) 74/80 (5) 70/80 (6) 65/80. Changed oil and filter. Inspected oil filter. No metal found. Serviced engine with 12 qts Phillips 20W50 X/C oil. Cleaned and gapped spark plugs. Fuel strainer cleaned. Adjusted prop deice brush block. Tightened turbo controller fittings lock nuts. Magneto timing checked and adjusted. Pressure tested exhaust system. C/W AD2013-10-04 Exhaust system inspection. C/W AD2024-21-02 by connecting rod bushings by inspection of filter. Engine washed and ground ran. Operational checks OK. No leaks noted.

I certify that this engine has been inspected in accordance with an ANNUAL inspection and was determined to be in airworthy condition.

Sheldon A Burgess A&P 2159379 IA

Sheldon A Burgess

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