

ENGINE LOG SCAN

N2287A (formerly N500DH)

Diamond DA40

Airframe SN 40.226

AIRCRAFT TECHNICAL LOGS

Section 3. ENGINE

ENGINE LOG

1. Make LYCOMING
2. Model IO-360-M1A
3. Specification 1E10
4. Manufacturer's Serial Number L-30387-51A
5. Date of Manufacture _____
6. Aircraft Inspection Cycle _____

Fuel injection 245.

Precision airmotive marysville wa.

LYC # 61522633

SERIAL # 70258208

SETTING # 2576568-1

TEXTROL Lycoming

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

FINAL ENGINE ACCEPTANCE

Eng. Serial No. 71 L-30387-51A

Inspector _____

Date 4-30-02

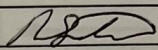
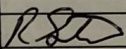
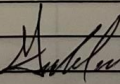
Form 245

ENGINE SERVICE AND

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE
	HRS.	MIN.	HRS.	MIN.	
					ENGINE INSTALLED NEW ON
					Engine installation inspected I.A.W. Diamond Aircraft Industries W.O. # 999-1
					Engine service with 8 qts. Of Philips 20W50 Type "M" engine oil.
					Engine break-in I.A.W. Lycoming Service Instruction 1427B,
					FLIGHT TEST COMPLETED
09 AUG 2002			4.4		HOURS BROUGHT FORWARD
8-3-02			27.6		25 HR INSPECTION / OIL & OIL FILTER CHANGE. OIL LEAK DN 1 79, 2 77, 3 79, 4 79/80 CHANGED OIL AND OIL FILTER FILTER CUT OPEN AND INSPECTED OK. SERVICED WITH AEROSHELL 100 MIN. OIL. DEGREASED ENGINE, GROUND RUN-UP OP'S AND LEAK CK'D OK. Kuhn Run A & P 567495144
9-13-02			43	3	50/100 HR INSPECTION, CYCLING MAGNETO TIMING 25° LT 25° RT, CUT AND INSPECTED OK, SERVICED SERVICED SPARK PLUGS ROTARY RESEALLED OIL FILLER, DIP STICK GROUND RUN-UP OP'S LEAK CK'D
TOTAL THIS PAGE					CARRIED FORWARD
TOTAL FROM PREVIOUS SUMMARY					
TOTAL					

MAINTENANCE RECORD

1

REPAIRS, ADJUSTMENTS, MODIFICATIONS <small>ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.</small>	SIGNATURE	LICENCE NUMBER
8440 30 40 226		DA Q 13
 	 	
		DA Q 13
ON 1 98/80, 271/80, 3 79/80, 4 77/80 CHANGED OIL AND OIL FILTER, FILTER WITH 15W/50 ARCOSELL OIL. REINSTALLED. TUBE HOUSING & SADDY WIRED. K., DECREASED ENGINE.		DATE 09-13-2002 I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH 200118 INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. W.O. 11546 T.T. 43.3 SIERRA MOUNTAIN AVIATION, INC. #61567485144

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

ENGINE SERVICE AND

INSTALLATIONS, INSPECTIONS,

NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE

DATE	TIME RUN		TIME SINCE OVERHAUL	
	HRS.	MIN.	HRS.	MIN.

BROUGHT FORWARD

03-06-03

99. 5

SICED ENG WITH 8 QTS AEROSHELL
15-50WT and FILTER CH 48110 INSTALLED
LEAK CHECK'S GOOD. OLD FILTER CHECK'S GOOD.
SMA. WICKENING AMP 3444052841A.

8-12-03

188

3

188

3

PERFORMED AN ANNUAL / 100 H
CYL LEAK DN. 178/80, 271/80 3
CHECKED MAGNETO TIMING &
CHANGED OIL AND OIL FILTER
SERVICED WITH 8 qt 15W/50
SERVICED SPARK PLUGS, ROTATE
CLEANED SERVO INLET FINGER
GROUND RUN-UP OP'S LEAK
SB PRS-105 PRECISION NA
END

5-21-04

2260

2260

CHANGED OIL AND OIL FILTER
SERVICED WITH 8 qts 15W/50
GROUND RUN-UP OP'S CHECK

1-22-04

2291

2291

PERFORMED AN ANNUAL INSPECTION
CYL LEAK DN 179/80 275/80
MAGNETO TIMING 25.5°
SERVICED SPARK PLUGS ROTATE
CLEANED INJECTORS REINSTA
CLEANED SERVO INLET SCREEN
CWAD 2002-26-01 INJECTOR LINES
DEGREASED ENGINE, GROUND R
END

TOTAL THIS PAGE

TOTAL FROM PREVIOUS SUMMARY

TOTAL SINCE MFG.

CARRIED FORWARD

MAINTENANCE RECORD

2

REPAIRS, ADJUSTMENTS, MODIFICATIONS
ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.

SIGNATURE

LICENCE
NUMBER

INSPECTION SERVICE.

78/80, 4 76/80
RESET ~~BOTH~~ ^{RIGHT} 25° LT 25° RT
FILTER CUT INSPECTED OK.
AEROSHELL OIL.
REINSTALLED.

SCREEN

CHECKED OK.

DUE TO SN INSTALLED.

DATE 8-12-2003
I CERTIFY THAT THIS ENGINE
HAS BEEN INSPECTED IN ACCORDANCE
WITH 2002A-100 INSPECTION
AND WAS DETERMINED TO BE IN
AIRWORTHY CONDITION.
W.O. 11792 LT. 188.3
SIERRA MOUNTAIN AVIATION, INC.

A&P, I.A. 567495144

[Signature]

CUT OPEN FILTER AND INSPECTED OK
AEROSHELL OIL.
OK.

[Signature]
A&P 567495144

SERVICE, (NO OIL CHANGE)

3 76/80, 4 79/80

25° RT

REINSTALLED,

ED.

OK.

CLAMPS OK BY INSPECTION DUE 329 02 7-05 H2O.F.
NO OP'S LEAK CHECKED OK.

DATE 7-22-2004
I CERTIFY THAT THIS ENGINE
HAS BEEN INSPECTED IN ACCORDANCE
WITH 2002A-100 INSPECTION
AND WAS DETERMINED TO BE IN
AIRWORTHY CONDITION.
W.O. 12132 LT. 229.1
SIERRA MOUNTAIN AVIATION, INC.

[Signature]

A&P, I.A. 567495144

ENGINE SERVICE AND

SB 569A

NA m/nf

S/V.

UN	TIME SINCE OVERHAUL
MIN.	HRS. MIN.

INSTALLATIONS, INSPECTIONS,

NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE



Sierra Mountain Aviation, Inc.
13308 Nevada City Ave
Grass Valley, Ca 95945

N500DH Engine

Tach: 267.0 SMOH: 267.0 Total Time: 267.0

Date: 7/29/2005 Work Order: 12422

Performed an Annual Inspection and Servicing per SMA checklist.

Changed oil and oil filter, filter cut open and inspected.

Serviced with (8) Qts 15W50 oil

Cylinder Leak-down check, (1), 79 (2), 79 (3), 79 (4), 79

Magneto timing Left (25), Right (24.5) Spec (25)

Serviced sparkplugs, rotated and reinstalled

Degreased engine, ground run-up, op's leak check ok

I certify that this engine has been inspected in accordance with an Annual/100HR inspection and was determined to be in airworthy condition

Signature

Gerald W. Rose A&P/I.A. 567495144

Sierra Mountain Aviation, Inc. 530.273.5273



Sierra Mountain Aviation, Inc.
13308 Nevada City Ave
Grass Valley, Ca 95945

N500DH Engine

Tach: 283.2 SMOH: Total Time: 283.2

Date: 08/11/06 Work Order: 12676

Performed an Annual Inspection and Servicing per SMA and Diamond checklist

Compression readings: #1 79/80, #2 78/80, #3 79/80, #4 79/80

Serviced with 8 Qts. Of 15W50 Aeroshell

Replaced filter with new CH48110-1

Old oil filter inspection good, no contaminants found

Ground run up op's leak check ok

I certify this engine has been inspected in accordance with an Annual/100HR inspection and was determined to be in airworthy condition

Signature

Gerald W. Rose A&P/I.A. 567495144

Sierra Mountain Aviation, Inc. 530.273.5273

TOTAL THIS PAGE

TOTAL FROM PREVIOUS SUMMARY

TOTAL SINCE MFG.

MAINTENANCE RECORD

3

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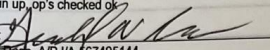
LICENCE
NUMBER



Sierra Mountain Aviation, Inc.
13308 Nevada City Ave
Grass Valley, CA 95945

N500DH Engine
Tach: 330.6 Work Order: 12870
Date: 6/04/07

Serviced with 8 Qts. Of 15W50 Aeroshell
Replaced oil filter with new CH48110-1
Old oil filter inspection good, no contaminants found
Ground run up, op's checked ok

Signature: 
Gerald W. Rose A/P I/A 567495144
Sierra Mountain Aviation, Inc. 530.273.5273

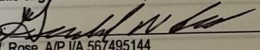


Sierra Mountain Aviation, Inc.
13308 Nevada City Ave
Grass Valley, CA 95945

N500DH Engine
Tach: 355.1 SMOH: ~~N/A~~ Total Time: 355.1
Date: 9/10/07 Work Order: 12935

Performed an Annual Inspection and service per SMA checklist and Diamond 100 Hr checklist
Serviced with 8 Qts. Of 15W50 Aeroshell
Replaced oil filter with new, CH48110-1
Old oil filter inspection good, no contaminants found
AD# 2002-26-01, Prevent Failure of the Fuel Injector Lines
Complied with per visual inspection of lines and clamps per the AD, due again 455.1 Tach or 09-2008
Performed a compression test
#1 77/80, #2 69/80, #3 74/80, #4 73/80
Ground run up, op's leak checked ok

I certify this engine has been inspected in accordance with an Annual/100HR inspection and was determined to be in airworthy condition

Signature: 
Gerald W. Rose A/P I/A 567495144
Sierra Mountain Aviation, Inc. 530.273.5273

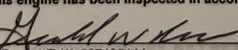


Sierra Mountain Aviation, Inc.
13308 Nevada City Ave
Grass Valley, CA 95945

N500DH Engine
Tach: 383.8 SMOH: N/A Total Time: 383.8
Date: 10/10/08 Work Order: 13152

Performed an Annual/100 HR Inspection per SMA checklist
Performed compression test
#1 78/80, #2 70/80, #3 79/80, #4 76/80
Serviced with 8 Qts of 15W50 Aeroshell
Replaced oil filter with new, CH48110-1
Old oil filter inspection good, no contaminants found
AD# 2008-14-07, To Prevent Failure of the Fuel Injector Lines
Complied with per visual inspection per the AD, due again 483.8 Tach
Ground run up, op's leak checked ok

I certify this engine has been inspected in accordance with a Annual/100HR inspection and was determined to be in airworthy condition

Signature: 
Gerald W. Rose A/P I/A 567495144
Sierra Mountain Aviation, Inc. 530.273.5273



Sierra Mountain Aviation, Inc.
13308 Nevada City Ave
Grass Valley, Ca 95945

N500DH Engine
Tach: 400.9 SMOH: N/A Total Time: 400.9
Date: 11/02/09 Work Order: 13581

ENGINE SERVICE AND

INSTALLATIONS, INSPECTIONS,

NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR

COMPLETE

Performed a 100 HR Inspection/Service per SMA Checklist

Performed compression test

#1 77/80, #2 70/80, #3 76/80, #4 77/80

Serviced with 7 Qts of 15W50 Aeroshell

Replaced oil filter with new, P.N. CH48110-1

Old oil filter inspection good, no contaminants noted

AD# 2008-14-07, Injector Lines

Complied with by visual inspection per AD, OK, due again 500.9 Tach

Ground run up, op's leak checked ok

I certify this engine has been inspected in accordance with a 100HR inspection and was determined to be in airworthy condition

Signature: 

Gerald W. Rose A/P I.A. 567495144

Sierra Mountain Aviation, Inc. 530.273.5273

Registration N500DH
Make Diamond
Model DA40
Serial # 40.226



Sierra Mountain Aviation, Inc.
13308 Nevada City Ave, Grass Valley, CA 95945
Engine

Date 03/22/12
Engine T/T 412.7
SMOH N/A
Hobbs Time 136.2
Work Order 21123

Performed a Annual/100 HR inspection service per SMA checklist

Performed a compression test, #1 76/80, #2 70/80, #3 78/80, #4 78/80

Serviced with 8 Qts. Of 15W50 Aeroshell oil

Replaced oil filter with new, P.N. CH48110-1

Old oil filter inspection good, no contaminants found

AD# 2012-03-07, To Address a Machine-From-Billet HS-6 Carburetor Having a Loose Mixture Control

Complied with per, Non-Applicable aircraft is fuel injected

AD# 2012-03-06, To Prevent an In-Flight Shutdown due to a Failed Fuel Servo Diaphragm

Complied with by Non-Applicable, no fuel servo work done after May 20, 2010

AD# 2011-26-04, To Prevent Failure of the Fuel Injector Lines

Complied with by visual inspection of fuel lines and clamps per MSB No. 342F, no defects noted, due again Tach 522.7

I certify this engine has been inspected in accordance with an Annual/100 HR inspection and was determined to be in airworthy condition

Signature: 

Daniel L. Grass A/P I.A. 3577254

Sierra Mountain Aviation, Inc. 530.273.5273

10/12/12

428

1

CHANGED ALL SPARK PLUGS

CHAMPION REM 38S FINE WIRE

4/15/13

440

CHANGED OIL & FILTER OPENED FILTER

AND INSPECTED OK SERVICED WITH

AEROSHELL 15W50. RUNUP OIL

6.5 QTS

CARRIED FORWARD

TOTAL THIS PAGE

TOTAL FROM
PREVIOUS SUMMARY

TOTAL
SINCE MFG.

MAINTENANCE RECORD

4

REPAIRS, ADJUSTMENTS, MODIFICATIONS
ENTRIES: DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.

SIGNATURE

LICENCE
NUMBER

Sierra Mountain Aviation, Inc.
13308 Nevada City Ave
Grass Valley, Ca 95945

N500DH **Engine**
Engine Total Time: 411.3 SMOH: N/A Tach Time: 411.3
Date: 2/04/11 Work Order: 13743

Performed Annual/100 Hr Inspection completed per SMA checklist
Compression test performed
#1 77/80, #2 72/80, #3 75/80, #4 75/80
Serviced with 8 Qts of 15W50 Aeroshell oil
Replaced oil filter with new, P.N. CH48110-1
Old oil filter inspection good, no contaminants found
Cleaned, gapped, rotated and reinstalled sparkplugs
AD# 2008-14-07, Prevent Failure of the Fuel Injector Lines
Complied with by visual inspection per AD, OK, due again 511.3 Tach
Adjusted idle up 1/4 turn
Tightened hose clamps on cylinder #2 & #4, rocker box drain lines
Ground run up, ops leak checked ok

I certify this engine has been inspected in accordance with a 100HR inspection and was determined to be in airworthy condition

Signature: *[Signature]*
Gerald W. Rose A/P I/A 567495144
Sierra Mountain Aviation, Inc. 530.273.5273

6-12-14

June 12, 2014

478.8 TT

Changed oil and filter
AD 2011-26-04 C/W by insp. fuel inj. lines Next due 578.8TT

CYLINDER NO.					
1	2	3	4	5	6
78	72	78	78	/	/
80	80	80	80	80	80
COMPRESSION CHECK					

This is to certify that this aircraft and power plant and propeller have been inspected in accordance with an annual inspection and was found airworthy.

Tac. 478.8 Total Time Aircraft 478.8

Total Time Power Plant 478.8

Total Time Propeller 478.8

Power Plant Time Since Major Overhaul 478.8

Propeller Time Since Overhaul 478.8

Ad Check to 2014-11

Patrick H. Moore IA 1550834

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

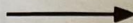
ENGINE SERVICE AND

INSTALLATIONS, INSPECTIONS,

NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE

DATE	TIME RUN		TIME SINCE OVERHAUL	
	HRS.	MIN.	HRS.	MIN.

BROUGHT FORWARD



July 1, 2015 490.7 TT
AD 2011 -26-04 C/W fuel injection lines, next due 590.7 TT

CYLINDER NO.					
1	2	3	4	5	6
76	76	78	78		
80	80	80	80	80	80
COMPRESSION CHECK					

This is to certify that this aircraft and power plant and propeller have been inspected in accordance with an annual inspection and was found airworthy.

Tac 253.1 Total Time Aircraft 490.7

Total Time Power Plant 490.7

Total Time Propeller 490.7

Power Plant Time Since Major Overhaul 490.7

Propeller Time Since Overhaul 490.7

Ad Check to 6-30-15

Patrick H. Moore IA 1550834

Patrick H. Moore
1550834 EA

7/1/15 490.7 ZAP

CHANGED OIL AND FILTER, OPENED OIL FILTER, INSPECTED OK. SERVICED WITH AERO SAECC 15W50 Runup OK 6.5 GTS

CARRIED FORWARD

TOTAL THIS PAGE

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TOTAL SINCE MFG.

MAINTENANCE RECORD

5

REPAIRS, ADJUSTMENTS, MODIFICATIONS
ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.

SIGNATURE

LICENCE
NUMBER

ACFT Model: Diamond DA 40	GIBBS SERVICE CENTER		Date: 6-9-2016
Serial No.: 40.226	Montgomery Field, San Diego, CA 92123		W.O. No.: 16-146
Reg. No.: N500DH	FAA Approved Repair Station VT3R931L		
Eng. Mfg.: Lycoming	Eng. Model: IO-30-M1A	Eng. S/N: L-30387-51A	
TET: 555.3	Tach: 555.3	Airframe: 555.3	

Annual inspection completed per the DA 40 AMM, document 6.02.01, rev7. Removed #2 cylinder due to low compression. Reinstalled cylinder following repair by Tim's Aircraft Engines, CRS T22R537Y. Cylinder installed with new rings, seals and gaskets. Pressure checked cabin heat exchanger. Drained oil, inspected and replaced oil filter. Serviced engine 8qts A/S 100 oil. Shimmed alternate air valve sleeve to prevent wear/binding. Removed L/ magneto S/N 01082350 and reinstalled following 500hr inspection by Aero Accessories CRS XB2R286L. Replaced air filter. Compression as follows: 1-77/80, 2-repaired, 3-76/80, 4-75/80. Engine runup OK, no leaks. C/W AD2015-19-07, fuel lines by visual inspections per Lycoming MSB 342G inspection checklist. No defects noted. Next due 665.3, line removal or engine O/H. AD notes checked and are current 6-9-2016. ATP Navigator Content Revision: 5-27-2016.

The aircraft and/or component identified above repaired/replaced and inspected in accordance with current federal aviation regulations and was found airworthy for return to service. Pertinent details of the repair/replacement are on file at this agency under Order No. 16-146

Date: 6-9-2016

Signed: *[Signature]*

Jeff Purvion

INSP
3

10/28/16 585.1 TT

CHANGED oil with PHILLIPS XLR 7QTS + OIL FILTER W/CH48110.
OIL FILTER INSPECTED O.K. RUN UP O.K. NO LEAKS.
John C. Shober 1655226

3-13-17

March 13, 2017

611.8 Total Time

AD 2011-26-04 C/W fuel injection lines next due, 711.8
Total Time.

Adjusted left mag. ground checks normal

CYLINDER NO.					
1	2	3	4	5	6
78	78	78	76		
80	80	80	80	80	80
COMPRESSION CHECK					

PAT MOORE A/P.

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

ENGINE SERVICE AND

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD	→				3-13-17
					This is to certify that this aircraft and power plant and propeller have been inspected in accordance with an annual inspection and was found airworthy.
					Tac <u>611.8</u> Total Time Aircraft <u>611.8</u>
					Total Time Power Plant <u>611.8</u>
					Total Time Propeller <u>611.8</u>
					Power Plant Time Since Overhaul <u>611.8</u>
					Propeller Time Since Overhaul <u>611.8</u> <u>133.8</u>
					Ad Check to <u>3-13-17</u>
					Patrick H. Moore <u>1550834</u> <i>Patrick H. Moore</i>

ACFT Model:	Diamond DA-40	GIBBS SERVICE CENTER	Date:	3-14-2017
Serial No.:	40.226	Montgomery Field, San Diego, CA 92123	W.O. No.:	17-052
Reg. No.:	N500DH	FAA Approved Repair Station VT3R931L		
Eng. Mfg.:	Lycoming	Eng. Model: IO-360-M1A	Eng. S/N:	L-30387-51A
TET:	611.8	Tach: 611.8	Airframe:	611.8

CW Lycoming MSB 612 by installation of new P/N LW-14760 oil dipstick.

The aircraft and/or component identified above repaired/replaced and inspected in accordance with current federal aviation regulations and was found airworthy for return to service. Pertinent details of the repair/replacement are on file this agency under Order No. 17-052

Date: 3-14-2017 Signed: *Jeff Runyon* INSP 3

3-14-2017 REPLACED OIL DIP STICK / RETURNED OLD ONE.

March 14, 2018
AD 2011-26-17 C/W fuel injection lines. Next due 741.8
Total Time.
Changed oil and filter 7 Qts. Aeroshell 15-50.

TOTAL THIS PAGE

TOTAL FROM PREVIOUS SUMMARY

TOTAL SINCE MFG.

CARRIED FORWARD

MAINTENANCE RECORD

6

REPAIRS, ADJUSTMENTS, MODIFICATIONS
ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.

SIGNATURE

LICENCE
NUMBER

3-14-18

CYLINDER NO.					
1	2	3	4	5	6
79	70	79	75		
80	80	80	80	80	80
COMPRESSION CHECK					

This is to certify that this aircraft and power plant and propeller have been inspected in accordance with an annual inspection and was found airworthy.

Tac 641.8 Total Time Aircraft 641.8

Total Time Power Plant 641.8

Total Time Propeller 641.8

Power Plant Time Since Major Overhaul 641.8

Propeller Time Since Overhaul 641.8 163.8

Ad Check In 2018-4

Patrick H. Moore IA 1550334

Patrick H. Moore

3-14-2018 CHANGED OIL WITH 6 QTS

AEROSHELL 15W50 MULTIGRADE

FILTER - TEMPEST AA48110-2 / SAMPLE SENT TO AOA

3-26-19

March 26, 2019

Total Time 668.9

N500DH

Replaced Oil and filter 6 qts. Phillips 20-50 XC.

CYLINDER NO.					
1	2	3	4	5	6
77	75	78	76		
80	80	80	80	80	80
COMPRESSION CHECK					

3-26-19 CHANGED OIL 6 QTS PHILLIPS 20-50 XC
FILTER - TEMPEST AA48110-2 / SAMPLE TAKEN

MAXIMUM HOURS BETWEEN OVERHAULS

HOURS.

ENGINE SERVICE AND

DATE	TIME RUN		TIME SINCE OVERHAUL		NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE
	HRS.	MIN.	HRS.	MIN.	

BROUGHT FORWARD →

3-26-19

This is to certify that this aircraft and power plant and propeller have been inspected in accordance with an annual inspection and was found airworthy.

668.9 Total Time Aircraft 668.9

668.9

668.9

668.9

668.9

2019-6

Ad Check to
Patrick H. Moore IA 1550834

Patrick H. Moore

5-3-2020 TACH TIME 703.0 HR 100 HR Inspection
COMPLETED THIS DATE USING DIAMOND
CHECK LIST COMPRESSION CHECK
#1-78, 2-78, 3-78, 4-78 SERVICED PLUGS
AND TORQUED TO 28 FT. POUNDS CHANGED
OIL USING PHILLIPS 20/50 OIL FILTER
CH 43110-2, CHECKED ALL HOSES, CK EX
SYSTEM. I CERTIFY THIS ENGINE
HAS BEEN INSPECTED IN ACCORDANCE
WITH A 100 HR INSPECTION AND DETERMINED
AIRWORTHY - RUN-UP COMPLETED AND
DETERMINED AIRWORTHY.
James A. Porter AFD 15B2995

6/01/2021

798.9

C/W Scope + Detail of Part 43 App. D for 100 hrs Annual
Insp. Comps 178/80 277/80 377/80 477/80, mag timing No
Defects, Oil & Filter change using Phillips 20w-50 + Fuel
AD43110-2, oil return lines from cylinders to crank case

CARRIED FORWARD

CONT. →

TOTAL THIS PAGE

TOTAL FROM PREVIOUS SUMMARY

TOTAL SINCE MFG.

703
669
44

MAINTENANCE RECORD

7

REPAIRS, ADJUSTMENTS, MODIFICATIONS
ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.

SIGNATURE

LICENCE
NUMBER

CONT. retorqued, I Certify that this Engine has been inspected IAW a 100hr. insp. and is in Airworthy Condition. E.A. Smith A&P 323376.

C/w Scope + Detail of Part 43 App. D for a 100hr/Annual insp. Comps 1⁷/₈₀ 2⁷/₈₀ 3⁷/₈₀ 4⁷/₈₀
Checked magnifying no defects found, changed oil + filter, oil pan filter No Abnormalities.
I Certify that this engine has been inspected IAW a 100hr. insp. and is in Airworthy Condition.
E.A. Smith A&P 323376. 7-30-2022, 894.0 TACH, 894.0 SMOH.

8-1-2023 TACH + total time 901.5

C/w Scope + Detail of Part 43 App D for a 100hr/Annual inspection.

Comps 1⁷/₈₀ 2⁷/₈₀ 3⁷/₈₀ 4⁷/₈₀ changed oil + filter oil pan filter No major debris

magnifying No defects found. AD 2011-26-17 C/w Fuel lines. by Visual inspection

No defects found. Next Due 1001.5 TACH. I Certify that this engine has been

inspected IAW a 100hr. inspection and is in Airworthy Condition. E.A. Smith A&P 323376.

Model: DA40
S/N: 40.226
Reg. №: N2287A



CORPORATE
FLIGHT MANAGEMENT

693 Fitzhugh Blvd.
Smyrna, TN 37167
615.534.4600

Engine

Date: 02/16/2024

Tach: 927.0

Maintenance Accomplished:

--Complied with oil and filter change. Opened oil filter for inspection. No defects found at this time.
Serviced with 8qts Phillips X/C 20W-50 and Oil Filter P/N: CH48110-1. Added Camguard Oil Additive.
12.8oz. REF. IO-360-M1A Maintenance and Overhaul Manual Section 72-50.

I Certify This Engine Has Been Inspected and Repaired In Accordance With current Diamond aircraft maintenance manuals and Is Approved For Return To Service with respect to the work performed. Pertinent details of the work performed are on file at this repair station Under Work Package DIA187

Signed:

For: *[Signature]*
Corporate Flight Management Inc.

Certified Repair Station № FJTR920D

Form CFM 023

HRS.

MIN.

HRS.

MIN.

Model: DA40
S/N: 40.226
Reg. №: N2287A



CONTOUR
AVIATION

693 Fitzhugh Blvd.
Smyrna, TN 37167
615.534.4600

Engine

Date: 4/18/2024

Hobbs: 1117.6

Flight: -

Tach: 964.6

Maintenance Accomplished:

-Performed oil and filter change. Cut open filter. No metal found. Installed new oil filter p/n: AA48110-2 and serviced with 6 qts 20W50X/C.
Ops and leak Checks good. Ref AMM 12-10.

I Certify This Engine Has Been Inspected and Repaired In Accordance With current Aircraft Manuals and Is Approved For Return To Service with respect to the work performed. Pertinent details of the work performed are on file at this repair station Under Work Package JWN3209 dated: 4/18/2024.

Signed:

For: *[Signature]*
Contour Aviation

Certified Repair Station № FJTR920D

Form CFM 007

Maintenance Accomplished:
Oil and filter change

Maintenance Accomplished:
-Performed oil and filter change. Cut open filter. No metal found. No
Ops and leak Checks good. Ref AMM 12-10.

I certify This Engine Has Been Inspected and Repaired In Accordance with the requirements of the law with respect to the work performed. Pertinent details of the work performed are on file at this repair shop.

[Signature]

Form CFM 007

Certified Repair Station No FJTR920D

Form CFM 007

Signed
For _____

Contour Aviation

Wingnuts Aviation, LLC - Mailing Address, 197 Bagwell Road, Clarksville, TN 37043 Facility Address, 4428 Airport Road,
Springfield, TN 37172 - 615-384-3200

August 27, 2024

N2287A
TACH: 969.3

Lycoming, IO-360-M1A, S/N: L-30387-51A
ETT: 969.3

ETT: 969.3


- N2267A
TACH: 969.3
- ETT: 969.3
- Inspected in accordance with our Checklist encompassing the scope and detail of 14CFR (FAR) 43 appendix D with reference to Diamond Model DA40 Maintenance Manual and all applicable ICA's.
1. Complied with an Annual Inspection in accordance with our Checklist encompassing the scope and detail of 14CFR (FAR) 43 appendix D with reference to Diamond Model DA40 Maintenance Manual and all applicable ICA's.
 2. Compression test results over 80 PSI: 1) 78, 2) 75, 3) 71, 4) 72.
 3. Removed, cleaned, gapped, tested, rotated and reinstalled spark plugs.
 4. Researched AD's through bi-weekly 2024-16 and found to be in compliance.
 5. Complied with AD 15-19-07 Fuel Injector Lines by visual inspection IAW (e)(1)(ii) as outlined in MSB 342G. Next due 110 hours or 12 months.
- I certify that this Engine has been inspected in accordance with an Annual Inspection and was determined to be in airworthy condition.

Kyle LaMontagne AP / IA 3889107

10-22-2024

Tach time

1023.2

Performed oil and filter change. Inspected
Filter, no defects noted. Installed AA48110-2
and 6 qts 20W50X/C. Ops and leak checks
good. Per AMM 12-10, 72-01-00 
H+P 2659275

TOTAL THIS PAGE

TOTAL FROM
PREVIOUS SUMMARY

TOTAL
SINCE MFG.

CARRIED FORWARD

MAINTENANCE RECORD

wo: 24-1493

Engine page 1 of 1

8

Wingnuts Aviation, LLC - Mailing Address: 197 Bagwell Road, Clarksville, TN 37043 - Facility Address, 4428 Airport Road, Springfield, TN 37172 - 615-384-3200

LICENCE
NUMBER

N2287A
TACH: 1068.9

Lycoming, IO-360-M1A, S/N: L-30387-51A
ETT: 1068.9

December 02, 2024

1. Complied with an 100 Hour Inspection in accordance with our Checklist encompassing the scope and detail of 14CFR (FAR) 43 appendix D with reference to Diamond Model DA40 Maintenance Manual and all applicable ICA's.
2. Compression test results over 80psi: 1) 74, 2) 74, 3) 75, 4) 62.
3. Removed, cleaned, gapped, tested, rotated and installed spark plugs. Installed (8) P/N M674 - Gasket, Spark Plug.
4. Drained oil, removed and inspected filter and suction screen, replaced crush gasket; no metal found. Installed new filter, reinstalled screen with new gasket and serviced engine with oil. Installed P/N MS35769-21 - Gasket, Crush, Installed (6 qt) P/N 20W50 Quart - Oil; Phillips X/C. Installed P/N AA48110-2 - Filter, Oil.
5. Researched AD's through bi-weekly 2024-23 and found to be in compliance. I certify that this Engine has been inspected in accordance with a 100hr Inspection and was determined to be in airworthy condition. Engine run up completed, all systems satisfactory.

Chris Ferraraccio AP / IA 2792477

Model: DA40
S/N: 40.226
Reg. No: N2287A



Date: 2/4/2025
Hobbs: 1255.8
Tach: 1111.0

Engine

Maintenance Accomplished:

-Complied with oil and filter change. Cut open filter. No metal found. Installed new filter p/n: AA48110-2 and serviced with 6 qts 20W50X/C. Ops and leak checks good. Ref AMM 12-00.

I certify This Engine Has Been Inspected and Repaired In Accordance With current Aircraft Manuals and Is Approved For Return To Service with respect to the work performed. Pertinent details of the work performed are on file at this repair station Under Work Package JWN3338 dated: 2/4/2025.

Signed:
For: Eric Blend

A&P 3595748

Form CFM 507

Volar LLC, 750 Franklin Road, Lebanon, TN 37087

Engine Make/Model: Lycoming/IO-360-M1A Engine Serial Number: L-30387-51A

AFTT: 1168.2 ENGTG: 1168.2 TACH: 1168.2 SMOH: N/A



- 1) Complied with Annual Inspection under the guidelines of Diamond DA 40 Series Maintenance Manual & Lycoming Operator's Manual.
- 2) Researched AD's through bi-weekly 2025-08.
- 3) Completed the following AD's by visual inspection and found to be good:
- ENGINE: 15-19-07 & 24-21-02
- 4) Checked magneto timing to engine.
- 5) Removed & replaced spark plugs with new copper seal.
- 6) Drained oil, removed, cut open and inspected filter, inspected sump screen; no metal was found, sent off oil for Blackstone oil analysis. Installed new filter AA48110-2, sump screen with new gasket. Serviced with 7 quarts Phillips X/C 20W50.

I certify that the Engine identified above has been inspected in accordance with an Annual Inspection as required by 14 CFR Part 43 Appendix D and was determined to be in an airworthy condition. All required maintenance has been performed per the manufacturer's maintenance manuals, Airworthiness Directives (ADs), and FAA-approved data as applicable. All applicable ADs have been complied with at this time, and a list of ADs and their status has been provided to be retained with the maintenance records.

The Aircraft, Engine or Component identified above was repaired and inspected in accordance with current maintenance rules of the Federal Aviation Regulations and is Approved for Return to Service.

Authorized Person Returning Aircraft to Service: Lawton Matthew Johns A&P/IA (3795040)

Signature: [Signature]

Pertinent details of the repair are on file at Volar LLC under Work Order No: 87A-042325

Date of Return to Service: 5/1/25

MAXIMUM

DATE	TIME RUN		TIME SINCE OVERHAUL		NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD					

Engine - page 1 of 1

wo: 25-1190

Wingnuts Aviation, LLC - Mailing Address, 197 Bagwell Road, Clarksville, TN 37043 - Facility Address, 4428 Airport Road, Springfield, TN 37172 - 615-384-3200

N2287A
TACH: 1218.4

Lycoming, IO-360-M1A, S/N: L-30387-51A
ETT: 1218.4

July 23, 2025

Drained oil, took sample and sent to Blackstone for analysis. Removed and inspected oil filter; no metal found. Installed new filter and serviced engine with oil. Installed P/N BS - Blackstone Oil Sample Service, Installed (6 qt) P/N 20W50 Quart - Oil; Phillips X/C, Installed P/N AA48110-2 - Filter; Oil.

Engine run up completed, all systems satisfactory.

Aaron Fowler AP 4452170

wo: 25-1252

Engine - page 1 of 1

Wingnuts Aviation, LLC - Mailing Address, 197 Bagwell Road, Clarksville, TN 37043 - Facility Address, 4428 Airport Road, Springfield, TN 37172 - 615-384-3200

N2287A
TACH: 1458.8

Lycoming, IO-360-M1A, S/N: L-30387-51A
ETT: 1458.8

October 16, 2025

Inspected engine. Fuel and ignition systems verified for proper function. Run up test achieved static power and normal operation. Cowling reinstalled.

Engine run up completed. all systems satisfactory.

David Bliss AP / IA 3456094

N2287A

Lycoming: IO-360-M1A

S/N: L-30387

31 October 2025

TACH: 1265.3, ACFT TTSN: 1265.3, Hobbs: 1460.9

ETSMOH: 1265.3, ETT: 1265.3

Performed a 100-hr inspection on engine with reference to 14 CFR FAR part 43 Appx D.

- Replaced oil filter with new Tempest AA48110-2, and reinstalled flow through screen with new annular gasket AN900-16.
- Serviced engine with 8 quarts of Phillips 66 X/C 20W-50. Removed, cleaned, gapped, tested, rotated, installed and torque to 420"/lbs.
- Adjusted timing of both mags to 25 degrees BTDC, inspected magnetos and leads; no faults noted.
- Cleaned/inspected oil cooler.
- Cleaned air filter.
- Confirmed alternator belt tension.
- Performed post 100-hr engine run-up for operational and oil leak check; no defects found.
- Confirmed low idle RPM at 800 RPM minimum.
- All maintenance performed with reference to Lycoming Overhaul and Diamond DA40 Aircraft Maintenance Manuals.

I certify this engine has been inspected with reference to a 100-hour inspection and was found to be in an airworthy condition.

Wesley Shoemaker A&P 4704022

Wesley Shoemaker

TOTAL FROM PREVIOUS SUMMARY		
TOTAL SINCE MFG.		