

December 18, 2002
N44855S

Model IO 520BB
Tach 4445.37

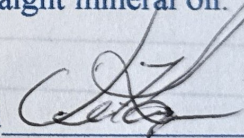
S/N 569790
TSO "0"

DATE

19

Removed this engine from a V35B S/N D-9785. Performed major overhaul IAW Teledyne Continental IO 520 overhaul manual. Crankcase Inspected, repaired and recertified by Divco Inc work order #81070. The following work performed by Rick Romans, Inc. under work order #38119: crankshaft S/N R38119-1 magnafluxed and ground .010, new counter weight blade bushings and ultrasonic inspected IAW AD 97-26-17, connecting rods magnafluxed and rebushed, counter weights magnafluxed and rebushed. All drive gears magnafluxed. Installed reconditioned camshaft model 653058, S/N S127741-2. Installed new lifters. Installed six .010 over cylinders overhauled by Gibson Aviation with the following serial numbers: 77150-1, 77150-2, 77150-3, 77150-4, 77150-5, and 77150-6. Assembled engine with new bearings and gaskets IAW IO 520 overhaul manual (engine accessories not overhauled at this time.) Reinstalled engine in a V35B S/N D-9785. Serviced with Aeroshell 100 straight mineral oil. Performed ground operational and leak checks.

Signed



Vernon Hampton A & P 431417955

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e FAA

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ENGINE MAINTENANCE LOG



DATE	ACCUMULATED TO
19	Hours

GREGG AIRCRAFT SERVICES, INC.
 RT. 3, EAST TEXAS REGIONAL AIRPORT
 LONGVIEW, TX 75603
 903-643-0980

N4485S 8-19-03 TACH: 4520.7 SMOH: 75.33

Performed 100-hour inspection. Compressions #1)62, #2)62, #3)66, #4)70, #5)68, #6)70. Changed oil and filter. Serviced with 12 quarts Aeroshell 100W and CH48109 filter. Cleaned fuel screens and injection nozzles. Cleaned, gapped and rotated spark plugs. Replaced right magneto impulse coupling with new unit. Removed starter adapter and had resealed by Aircraft Engine and Accessory. Reinstalled after repair. Runup and leak check good.

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

Timothy K. Stroman

Timothy K. Stroman
 A&P466594753

rehaul
 d repairs and overhaul.
 mber of either the FAA

30

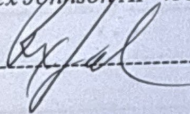
ENGINE MAINTENANCE LOG

DATE	ACCUMULATED TOTALS		Description of Inspection, Repair and Overhaul Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.
	Hours	10ths	
19__			

-21-04	4581.9	Changed oil & filters. Serviced with 11qt Shell W 100. Rex Johnson AP 464042145
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Engine Log Entry For N4485S
 2/09/04 Tach: 4584.7

1. Removed old vacuum pump to install an overhauled pump supplied by Holly Aero. Installed pn. 242CW Son. 8451.
2. Installed a new vacuum pump drive seal pn. CR8107.
3. Test run engine, all functions were normal.

Rex Johnson/AP 452130406


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ENGINE MAINTENANCE LOG

ACCUMULATED
TOTALS

Hours

10ths

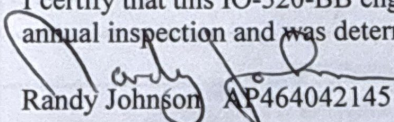
Engine Log Book Entry for N4485S

9-23-04 S/N: 569790 Tach Time: 4607.4 SMOH: 162.1

Performed an annual inspection and accomplished the following:

1. Compression checked: #1 70 #2 70 #3 76 #4 74 #5 76 #6 71/80.
2. Oil and filter not changed at this time.

I certify that this IO-520-BB engine has been inspected in accordance with an annual inspection and was determined to be in an airworthy condition.


Randy Johnson AP464042145



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r of either the F

32

Johnson

Aviation



Engine Log Entry For N4485S

9/27/05 Tach: 4676.5 Engine Total Time SMOH: 231.2

Performed an annual inspection and accomplished the following:

- 1. Compression Check. 1. 72 2. 70 3. 66 4. 62 5. 62 6. 65/80***
- 2. Changed oil and filter. Serviced engine with 11qts. of Aeroshell W100.***
- 3. Replaced the fuel line from fuel divider to fuel injector with a new one.***
- 4. Test ran engine, no leaks found and all functions were normal.***

I certify that this IO-520-BB engine has been inspected in accordance with an annual inspection and was found to be in airworthy condition.


Randy Johnson IA 464042145



353 Airport Rd.
Tyler Texas 75704

Date: 10/24/08

Tach: 4854.3

SMOH: 409.0

N4485S Eng. Log

Performed an annual inspection and accomplished the following:

- 1. Compression Ck. 1)62 2)70 3)65 4) 70 5)62 6)71 over 80.*
- 2. Changed oil and filter, serviced with Shell 100W and a CH48109-1 filter.*
- 3. Cleaned the engine air filter with compressed air.*
- 4. Complete AD list is in the Log Folder.*

I certify this engine has been inspected in accordance with an annual inspection and was found to be in airworthy condition.

Rex Johnson

A&P3129314IA



353 Airport Rd.
Tyler Texas 75704

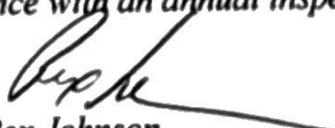
Date: 12/20/2011
Tach: 4966.0
SMOH: 520.7

N4485S Eng. Log

Performed an annual inspection and accomplished the following:

1. Compression Ck. 168) 2)72 3)72 4)65 5)63 6)68 over 80.
2. Complete AD list is in the Log Folder.
3. Changed oil and filter, serviced with Shell W100 and a CH48109-1.
4. Installed a new muffler on the right side.

I certify this engine has been inspected in accordance with an annual inspection and was found to be in airworthy condition.


Rex Johnson
A&P31293141A



353 Airport Rd.
Tyler Texas 75704

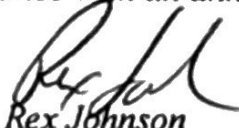
Date: 4/15/2013
Tach: 4970.2
SMOH: 524.9

N 4485S Eng. Log

Performed an annual inspection and accomplished the following:

1. Compression Ck. 1) 70 2) 70 3) 71 4) 68 5) 63 6) 65 over 80.
2. Set mag timing on both mags.
3. Complete AD list is in the Log Folder.

I certify this engine has been inspected in accordance with an annual inspection and was found to be in airworthy condition.


Rex Johnson
A&P31293141A



353 Airport Rd.
Tyler Texas 75704

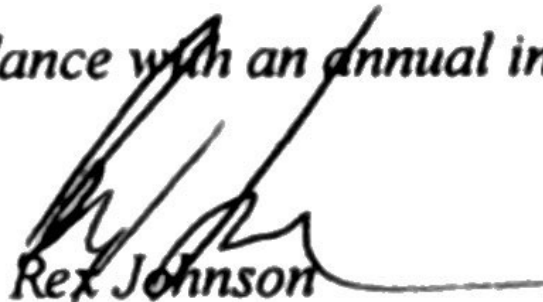
Date: 05/1/2014
Tach: 4978.25
SMOH: 532.88

N4485S Eng. Log

Performed an annual inspection and accomplished the following:

- 1. Compression Ck. 1)62 2)62 3)62 4)68 5)70 6)64 over 80.*
- 2. Complete AD list is in the Log Folder.*
- 3. Drained oil, serviced with 12 quarts Aeroshell w100*
- 4. Removed and inspected oil filter, installed new CH48109-1 oil filter.*
- 5. Repaired fuel overflow hose.*
- 6. Replaced the vacuum regulator filter cover.*

I certify this engine has been inspected in accordance with an annual inspection and was found to be in airworthy condition.


Rex Johnson
A&P31293141A



353 Airport Rd.
Tyler Texas 75704

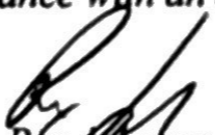
Date: 6/25/2015
Tach: 4987.1
SMOH: 541.7

N4485S Eng. Log

Performed an annual inspection and accomplished the following:

1. Compression Ck. 1) 55 2) 60 3) 65 4) 5) 55 6) 72 over 80.
2. Changed oil and filter, serviced with Shell W100.
3. Timed both mags to 22 degrees
4. Installed a new muffler and tailpipe on the right side.
5. Complete AD list is in the Log Folder.

I certify this engine has been inspected in accordance with an annual inspection and was found to be in airworthy condition.


Rex Johnson
A&P31293141A



353 Airport
Tyler Texas 75704

Date: 7/20/2015
Tach: 4992.0
Hm:

N4485S

1. Installed a new vacuum pump from Holly Aero PN242CW.


Rex Johnson
A&P31293141A



353 Airport Rd.
Tyler Texas 75704

Date: 7/20/2016
Tach: 5008.2
SMOH: 562.8

N4485S Eng. Log

Performed an annual inspection and accomplished the following:

- 1. Compression Ck. 1)65 2)65 3)70 4)69 5)70 6)70 over 80.*
- 2. Changed oil and filter, serviced with Shell W100 and a CH48109-1 filter.*
- 3. Checked the magneto timing.*
- 4. Complete AD list is in the Log Folder.*

I certify this engine has been inspected in accordance with an annual inspection and was found to be in airworthy condition.

A handwritten signature in black ink, appearing to read "Rex Johnson".

Rex Johnson
A&P31293141A



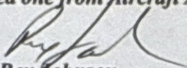
353 Airport
Tyler, Texas 75704

Date: 1/31/2017
HM: 5029.14

DATE	ACCUMULATED TOTALS	
	Hours	10ths
19____		

N4485S

1. Replaced left magneto with an overhauled one from Aircraft Accessories.
PN. BL349350-4 SN. F16KA171R.


Rex Johnson
A&P 3129314 IA

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353 Airport Rd.
Tyler Texas 75704

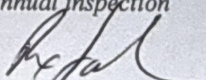
Date: 7/28/2017
Tach: 5045.2
SMOH: 599.8

N4485S Eng. Log

Performed an annual inspection and accomplished the following:

1. Compression Ck.1) 65 2. 67 3. 70 4. 70 5. 70 6. 72/80.
2. Changed oil and filter. Serviced with 12qts. Shell W100 and a CH48109-1 filter.
3. Removed cleaned and gapped spark plugs.
4. Inspected muffler for distortion and cracks. Found okay.
5. Lubed all engine controls.
6. Complete AD list is in the Log Folder. All applicable Ads complied with.

I certify this engine has been inspected in accordance with an annual inspection and was found to be in airworthy condition.


Rex Johnson
A&P3129314IA



353 Airport Rd.
Tyler Texas 75704

Date: 7/20/2018
Tach: 5073.38
SMOH: 627.98

N4485S Engine Log

Performed an annual inspection and accomplished the following:

- 1. Compression ck. 1. 72 2. 72 3. 74 4. 72 5. 74 6. 76/80.*
- 2. Removed cleaned and gapped spark plugs. Reinstalled spark plugs.*
- 3. Changed oil and filter. Serviced with 11qts. of Aeroshell W100 and a CH48109-1 filter.*
- 4. Replaced all fluid carrying hoses for engine with new ones.*

I certify this engine has been inspected in accordance with an annual inspection and was found to be in airworthy condition.

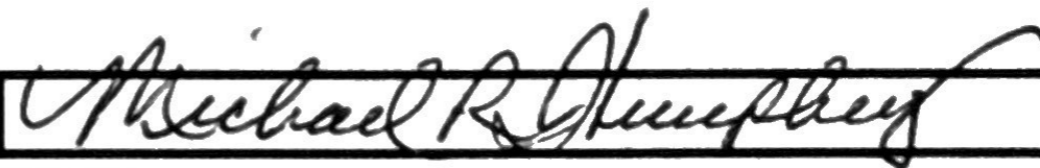
A handwritten signature in black ink, appearing to read "Rex Johnson", with a long horizontal line extending to the right.

Rex Johnson
A&P31293141A

	Engine Logbook Entry	IO-520-BB	
	<i>MRH Aero Mechanix</i>	24-Aug-19	
	<i>1496 Thousand Oaks Drive</i>	Tach 5106.28	
	<i>Decatur, TX 76234</i>	TSOH 660.88	

(Engine S/N: 569790) ----- Performed differential compression check and borescope inspection in accordance with TCM SB03-3. #1-63/80, #2-61/80, #3-65/80, #4-62/80, #5-69/80, #6-66/80. Differential compression gauge master oriface reading 47/80. ----- Removed RH magneto (S/N: F02EA166R) and routed to Aircraft Ignition Services for 500 hour inspection (AIS WO# 3993). Reinstalled RH magneto and set magneto to engine timing. Ground run engine functional checked good ----- Removed alternator from engine. Performed Alternator Drive Coupling Slippage Inspection per Continental Standard Maintenance Manual M-0 Section 10-4.1.4. No defects noted on coupling. Reinstalled alternator with new gasket (p/n: 653981) ----- Cleaned and rotated spark plugs ----- Cleaned fuel injector nozzles ----- All applicable ADs complied with to date. See current ATP AD compliance record for details. ----- I certify that this Engine has been inspected in accordance with an Annual inspection within applicable sections of FAR 43 Appendix D and was found to be in an airworthy condition. End.

Michael R. Humphrey A&P 3201695 IA



ENGINE MAINTENANCE LOG

DATE 2019	ACCUMULATED TOTALS		Description of Inspection, Repair and Overhaul Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.
	Hours	10ths	
10/5	5154	33	Drained + replaced oil with 9 qts Aeroshell w100 + CH48109-1 filter + safety wired filter William Fahle PPC#3673315 Owner <i>William Fahle</i>
12/18	5175	07	Drained + replaced oil w/ 9 qts Aeroshell w100 + CH48109-1 filter William Fahle PPC#3673315 owner <i>William Fahle</i>
2/18	5245	25	Drained + serviced oil w/ 9 qts Aeroshell w100 even up both sides CH48109-1 filter William Fahle owner PPC#3673315 <i>William Fahle</i>
5/22	5301	65	Drained + serviced oil w/ 10 qts Aeroshell w100 Rem up both sides + safety wired new filter CH48109-1 William Fahle PPC#3673315 owner <i>William Fahle</i>
8/2	5349	74	Drained + serviced oil w/ 9 qts Aeroshell w100 even up both sides + replaced filter w/ CH48109-1 Cleaned + retight spark plugs + replaced 12 m674 copper gaskets William Fahle PPC#3673315 Owner <i>William Fahle</i>

Precision Aircraft Maintenance – 4845 Lockheed Ln Unit 102 Denton, TX, 76207 – 940.367.5988 – 409.767.1158

N4485S	BEECH V35B	D-9785	AFTT: 5376.48	TACH: 5376.48
Eng Make: Continental	Eng Model: IO-520-BB	Eng S/N: 569790	TTSMOH: 931.08	
Prop Make: Hartzell	Prop Model: PHC-C3YF-1RF/F8068	Prop S/N: QG1839B	TTSN: 48.8	

ENGINE

- This engine was inspected IAW an annual inspection per FAR 43 appendix (d). The following maintenance was performed.
- Performed compression check. Compressions were as follows: #1 58/80 #2 67/80 #3 68/80 #4 70/80 #5 68/80 #6 66/80.
- Lubricated all engine controls.
- Inspected induction air filter.
- Performed pressure test on exhaust system. No leaks noted at this time.
- Removed corroded and worn hardware from muffler. Installed 6ea new bolts P/N AN3C15 with 6ea new nuts P/N AN310C3.
- Cleaned and inspected all fuel injectors.
- Performed fuel system setup IAW TCM SID97-3G.

I CERTIFY THIS ENGINE HAS BEEN INSPECTED IAW AN ANNUAL INSPECTION AND WAS FOUND TO BE IN AN AIRWORTHY CONDITION AT THIS TIME.

Wesley Pearce AP 2729740 IA



Date: 19OCT2020

ENGINE MAINTENANCE LOG

DATE <i>10/16</i>	ACCUMULATED TOTALS		Description of Inspection, Repair and Overhaul Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.
	Hours	10ths	

Precision Aircraft Maintenance – 4845 Lockheed Ln Unit 102 Denton, TX, 76207 – 940.367.5988 – 409.767.1158
 N448SS BEECH V35B D-9785 AFTT: 5376.48 TACH: 5376.48
 Eng Make: Continental Eng Model: IO-520-BB Eng S/N: 569790 TTSMOH: 931.08
 Prop Make: Hartzell Prop Model: PHC-C3YF-1RF/F8068 Prop S/N: QG1839B TTSN: 48.8

ENGINE

- This engine was inspected IAW an annual inspection per FAR 43 appendix (d). The following maintenance was performed.
- Performed compression check. Compressions were as follows: #1 58/80 #2 67/80 #3 68/80 #4 70/80 #5 68/80 #6 66/80.
- Lubricated all engine controls.
- Inspected induction air filter.
- Performed pressure test on exhaust system. No leaks noted at this time.
- Removed corroded and worn hardware from muffler. Installed 6ea new bolts P/N AN3C15 with 6ea new nuts P/N AN310C3.
- Cleaned and inspected all fuel injectors.
- Performed fuel system setup IAW TCM SID97-3G.

I CERTIFY THIS ENGINE HAS BEEN INSPECTED IAW AN ANNUAL INSPECTION AND WAS FOUND TO BE IN AN AIRWORTHY CONDITION AT THIS TIME.

Wesley Pearce AP 2729740 IA *Wesley Pearce*

Date: 19OCT2020

2020-10-16	5401	80	Drained + serviced w/9gts Aeroshell w/100 + C448109 + Filter Solved Filter After torque William Fuhle owner PPC # 3673315 <i>William Fuhle</i>
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CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE

Precision Aircraft Maintenance – 4845 Lockheed Ln Unit 102 Denton, TX, 76207 – 940.367.5988 – 409.767.1158

N4485S

BEECH V35B

D-9785

AFTT: 5452.9

TACH: 5452.9

Eng Make: Continental

Eng Model: IO-520-BB

Eng S/N: 569790

TTSMOH: 1007.5

Prop Make: Hartzell

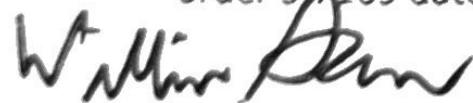
Prop Model: PHC-C3YF-1RF/F8068

Prop S/N: QG1839B

TTSN: 125.22

AIRFRAME

- Oil Change. Ran engine to operating temperature. Drained engine oil. Removed and cut open oil filter to inspect for metal and other debris. No metal or debris noted at this time. Installed new oil filter P/N CH48109-1 and serviced with 10qts Aeroshell 100W Plus. Performed leak check. No leaks noted at this time.
- Disconnected EGT probe. Removed all 6 lower spark plugs. Removed left and right exhaust manifolds and discarded gaskets. Removed left and right induction manifolds and discarded gaskets. Removed rocker covers from all cylinders and discarded gaskets. Removed induction and exhaust rocker arms from all 6 cylinders. Removed rocker arm push rods. Removed push rod tubes and discarded gaskets. Removed all lifters. Disassembled, cleaned, and inspected lifters. Reassembled induction lifters and reinstalled in engine. Installed new exhaust lifters P/N SA646277. Cleaned mating surfaces of engine case and cylinder head. Reinstalled pushrod tubes with new seats from kit P/N RG-520PRT-6 with new washers from kit. Reinstalled rocker push rods. Installed induction and exhaust rocker arms. Verified side clearance and valve lash. Installed rocker cover with new gaskets P/N 655528 with Loctite 515. Cleaned and tested spark plugs. Reinstalled all 6 lower spark plugs with 6ea new gaskets P/N M-674. Reinstalled left and right induction with 6ea new gaskets P/N 649959 with Loctite 515. Reinstalled left and right exhaust manifolds with 6ea new no-blow gaskets P/N 652458. Reconnected EGT probe. Ran engine and warmed oil to operating temp. Performed leak check. No leaks noted at this time.
- Fabricated new engine breather hose and installed with 2ea new clamps P/N QS200-20H
- Installed 1ea new garlock seal P/N 653171
- Replaced Oil drain crush gasket
- Removed rocker arm. Installed serviceable rocker arm
- Removed #3 lower spark plug. Installed new plug P/N URHB36S XL
- Installed 6ea new exhaust lifters P/N SA646277.
- Removed #4 cylinder. Installed cylinder P/N 655469 S/N S-6589-2 following overhaul by Sal's Aircraft Cylinders CRS P3317562 under order S-7169 dated 22JAN2021. Torqued cylinder nuts. Checked valve clearances. Checked rocker clearances.



William Garr AP 3136552

Date: 03FEB2021

ENGINE MAINTENANCE LOG

DATE	ACCUMULATED TOTALS		Description of Inspection, Repair and Overhaul Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.
	Hours	10ths	
9/19/2021	5506	47	Drained + serviced w. 9qts W100 Aeroshell + CH48109-1 filter torqued + set oil filter + ran up / checked for leaks William Fille owner Return to Service May 9 2021 3673315 PPC WFA/PPM
9/17	5559	96	Cleaned + rotated spark plugs Rating to expire Sept 7, 2021 3673315 PPC Western Skyways, Inc. WFA/PPM
9/18	5560	60	Installed overhauled pressure pump 242 CW S/N 194329 Rapco removed old RAPCO 242CW S/N 22779 Installed new gasket P/N A53491-01 and 4 new 1/2" washers P/N AN960-416 and 4 new lock washers P/N 533355 OUTDALE AIR CENTER owners. Installed new 085 oil cap / dipstick Gasket I0520 1/2" thick performance P/N 533355 removed old. Re-routed left side 6-4-2cpl. spark plug wires Installed new MS35338 lock washers for wire routing screws. Drained oil removed and replaced oil filter CH48109-1 and serviced w/ 9qts Aeroshell W100 + 16oz oil certify this against above airworthy conditions + return to Service 9/18/2021 William Fille AIP 3136552

Date: 11/07/2021

Hours: TSMOH 1158.5

Tail#: N4485S

TTAF 5603.91

Make: Continental Motors

Model: IO-520 BB

S/N: 569790

Performed engine ground run and warm-up, magneto drop check, removed engine cowlings, and performed compression checks.

Cylinder 1) 75 /80 2) 75/80 3) 78 /80 4) 80 /80 5) 78/80 6) 75/80

Removed #4 cylinder fuel injector nozzle, inspected for cracks, and reinstalled (small leak was detected).

I certify this engine has been inspected in accordance with an annual inspection within the scope of FAR Part 43 Appendix D and has been found to be in an airworthy condition. All AD's are complied with to date.

Name: Jeremy Webster

Cert: A&P/IA 3051920

Co: Webster Aviation Services

Sign:

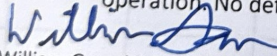


ENGINE MAINTENANCE LOG

DATE	ACCUMULATED TOTALS		Description of Inspection, Repair and Overhaul
	Hours	10ths	
			Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.

N44855 Precision Aircraft Maintenance - 4845 Lockheed Ln Unit 102 Denton, TX, 76207 - 940.367.5988 - 409.767.1158
 Engine Make: Continental Prop Make: Hartzell TACH: 5606.52
 A/C Make: Beech Engine Model: IO-520-BB Prop Model: PHC-C3YF-1RF/F8068 Date: 16DEC2021
 A/C Model: V35B Engine S/N: 569790 Prop S/N: QG1839B AFTT: 5606.52
 A/C S/N: D-9785 ETTSMOH: 1161.12 PTTN: 278.84

- Removed left hand magneto P/N 10-349350-4 S/N F16KA171R. Removed right hand magneto P/N 10-349350-5 S/N F02EA166R. Removed timing plug from front of engine. Removed #1 spark plug. Rotated engine to #1 cylinder top dead center. Adjusted prop to correct timing mark. Removed plugs from left and right magneto. Rotated magnetos to align internal timing marks. Installed left hand magneto P/N 10-349350-4 S/N F16KA171R following 500hr inspection performed by Aircraft Ignition Services CRS# 3040415 under WO# 5877 dated 13DEC2021 with new gasket P/N SA534750. Installed right hand magneto P/N 10-349350-5 S/N F02EA166R following 500hr inspection performed by Aircraft Ignition Services CRS# 3040415 under WO# 5876 dated 13DEC2021 with new gasket P/N SA534750. Connected magneto timing box. Adjusted left and right magneto to 22 degrees. Secured left and right magnetos. Installed magneto harness caps onto left and right magneto. Connected P-lead wires and ground wires. Reinstalled timing plug on front of engine and safety wired. Reinstalled and torqued #1 spark plug. Ran engine to perform leak check and verify magneto operation. No defects noted at this time.


 William Garn AP 3136552

DATE	ACCUMULATED TOTALS	
	Hours	10ths
2022		
4-29	5653	52

Description of Inspection, Repair and Overhaul
 Enter here general data with reference to inspections, alterations and repairs and overhaul.
 ALL DATA must be endorsed with the name, rating and certificate number of either the FAA
 Repair Station or the mechanic.

1208.155moh Drained Oil + Replaced Champion
 C448109-1 filter, Torque and Safetyed filter + Added 1st ^{CAN} GUARD
 + 10 gts Aeroshell 6800 + Ran up/checked for leaks with the pump
 Return to Service April 30, 2022 William Fahle POC 3673315

Aerospace Instrument Support, Inc. 1750 Westcourt Road Denton, Texas 76201
 LOG ID# 1529 19-August-2022 WO# 19370
 N4485S S/N D-9785 Beech V35B Bonanza TACH 5678.9

**** ITEM # 19370-14 #4 & #6 exhaust rockers and pins worn ****
 DISCREPANCY: #4 & #6 Exhaust Rockers And Pins worn
 ACTION: R&R rocker arm assembly and rocker pin on cylinder 4 exhaust port, with new replacement
 652130 & 07-07113. R&R rocker arm and rocker pin on cylinder #6 intake, P/N: 652131 & 07-07113.
 current Beechcraft MM & Continental IO-520 series overhaul manual.
 **** ITEM # 19370-15 cylinders 2, 4 and 6 push rod shroud ****
 DISCREPANCY: cylinders 2, 4 and 6 push rod shroud Packing
 ACTION: R&R push rod tube bushings on cylinders 2,4 and 6 P/N: 534610. IAW current Continental
 io-520 series overhaul manual 5-11.

Donald Amborski AEP3934266IA 8/19/22
 Signed 3934266 Donald Amborski Date

3



Aerospace Instrument Support · 1750 WESTCOURT RD · DENTON, TX 76207 · 9405668079 · CRS#: XI7R807J

N4485S

September 23, 2022

TACH: 5696.04

1. **Engine Oil Leaks** – Retorqued Oil Cooler Bolts, removed and replaced Push Rod Housing Packing on #3 Cylinder Push Rod Tubes P/N: 534610. Leak check SAT. Maintenance conducted IAW Continental IO-520 EMM.

I certify that the above work was performed in accordance with the current federal aviation regulations and referencing the current revision of the aircraft and/ or its appliances maintenance publications. The engine and its appliances were determined to be in an airworthy condition with respect to the work performed above and is approved for return to service. Details of work performed are on file with Aerospace Instrument Support under work order: 19527.

Mike Newlin A&P 3353779

A handwritten signature in black ink, appearing to read "Mike Newlin", written over a horizontal line.



Roberts and Roberts Aircraft Service LLC
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N4485S
TACH: 5725.12

CONT MOTOR, IO 520 SERIES, S/N: 569790
TSO: 1279.72

December 27, 2022

- 1. Annual Inspection Due** – Completed 100 Hour Inspection on Engine. Drained Oil and Removed Oil Filter. Cut Filter and Checked for Debris. Serviced with 12 Qts of Aersohell W100 Plus. Replaced Filter. Compression Test Results: #1: 76, #2: 75, #3: 74, #4: 79, #5: 74, #6: 75. Checked and Set Magnetos to 22 Degrees BTDC. Cleaned and Gapped Spark Plugs. IAW: Current Continental Operators Manual.

I certify that the above work was performed in accordance with the current federal aviation regulations and referencing the current revision of the aircraft and/ or its appliances maintenance publications. The aircraft and its appliances were determined to be in an airworthy condition with respect to the work performed above and is approved for return to service. Details of work performed are on file with R + R Aircraft Service LLC under work order: N4485S 12-15-2022.

Kevin Roberts A&P IA 3936528

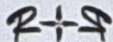
A handwritten signature in black ink, appearing to be 'Kevin Roberts', written over a horizontal line.

ENGINE MAINTENANCE LOG

DATE	ACCUMULATED TOTALS		Description of Inspection, Repair and Overhaul
	Hours	10ths	
19 _____			Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.

wo: N4485S 6-6-2023

Engine - page 1 of 1



*Roberts and Roberts Aircraft Service LLC
A New Way to Aviation Maintenance*

R + R Aircraft Service LLC - 10441 Stoneside Trl - Fort Worth, TX 76244 - 817-360-0810

N4485S	CONT MOTOR, IO 520 SERIES, S/N: 569790	June 10, 2023
TACH: 5797.15	TSO: 1351.75	

1. **Oil Leak on Propeller** – Found Propeller Leaking Oil from Forward Crankshaft Seal. Removed Propeller PN: PHC-C3YF-1RF SN: QG1839B Replaced O-Ring with PN: C-3317-228, Removed Seal Cover and Removed Forward Crankshaft Seal, Replaced Seal with PN: 641250, Reinstalled Seal Cover. Reinstalled Propeller PN: PHC-C3YF-1RF SN: QG1839B. Leak Check Good. IAW: Current Hartzell POM 115, Continental IO-520 Operators Manual and Beechcraft Bonanza V-35 Shop Manual Section Installed P/N PR-1425-B2 - Sealant, Installed P/N 641250 - Seal ASM Nose, Installed P/N 100w Plus - Aeroshell 100w Plus.

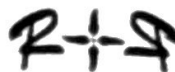
I certify that the above work was performed in accordance with the current federal aviation regulations and referencing the current revision of the aircraft and/ or its appliances maintenance publications. The aircraft and its appliances were determined to be in an airworthy condition with respect to the work performed above and is approved for return to service. Details of work performed are on file with R + R Aircraft Service LLC under work order: N4485S 6-6-2023.

Kevin Roberts A&P IA 3936528

ENGINE MAINTENANCE LOG

DATE	ACCUMULATED TOTALS		Description of Inspection, Repair and Overhaul Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.
	Hours	10ths	
2023			
7/23	5821	58	Oil change - Drained, + replaced oil filter w champion CH4 8109-1 filter
TSMO	1386	19	safety wiper, serviced w/ 9qt's Aeroshell W100 Wilco W/ Jr Owner PL# 3673315
7/30	5823	67	Cleaned Spark plugs, ran up to 1700 for 2 min, 1 per day,
TSMO	1388	28	no issues noted in cyl. temp. Data will be on system PL# 3673315
11/11	5861	13	Replaced spark plug on #4 cylinder w Champion RHB 32-5
TSMO	1425	74	Ran up, test filter, no description other than oil change PL# 3673315
12/17	5878	76	Oil change - Drained + replaced oil filter w champion CH4 8109
TSMO	1443	37	filter, safety wiper, serviced w/ 9qt's Aeroshell W100 Wilco W/ Jr Owner PL# 3673315

57



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A New Way to Aviation Maintenance

R + R Aircraft Service LLC - 10441 Stoneside Trl - Fort Worth, TX 76244 - 817-360-0810

N4485S

CONT MOTOR, IO 520 SERIES, S/N: 569790

March 06, 2024

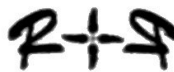
TACH: 5890.94

TSO: 1445.54

1. **Annual Inspection Due** – Completed 100 Hour Inspection on Engine. Drained Oil and Removed Oil Filter. Cut Filter and Checked for Debris. Serviced with 12 Qts of Aersohell W100 Plus. Replaced Filter. Compression Test Results: #1: 76, #2: 75, #3: 74, #4: 79, #5: 74, #6: 75. Checked and Set Magnetos to 22 Degrees BTDC. Cleaned and Gapped Spark Plugs. IAW: Current Continental Operators Manual.
2. **#2, 4, 6 Valve Covers Leaking Oil** – Removed and replaced Valve Cover Gaskets on rocker covers 2, 4, and 6 with P/N: 07-20084. Torqued IAW current Continental IO-520 Overhaul Manual. Installed (3) P/N APS-655528-S - Valve Cover Gasket.
3. **#2, 4 Exhaust and Intake Pushrod Tubes Leaking** – Removed Exhaust and Intake Pushrod tubes for cylinders 2 and 4 and replaced all packings with new P/N: 06-02054, and replaced damaged washers P/N: 534609 during re-assembly. Installed (8) P/N 534610 - Packing Pushrod.
4. **# 3 Exhaust and Intake Pushrod Tubes Leaking** – Removed Exhaust and Intake Pushrod tubes for cylinder 3 and replaced all packings with new P/N: 06-02054. Installed (4) P/N 534610 - Packing Pushrod, Installed P/N APS-655528-S - Valve Cover Gasket.
5. **RH Magneto Leaking Oil From Case** – Removed Magneto and Sent for Overhaul. Reinstalled Magneto. Timed Mag to Engine. IAW: Current Beechcraft Bonanza V35B Service Manual.

wo: N4485S 1-04-2024

Engine - page 2 of 2



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R + R Aircraft Service LLC - 10441 Stoneside Trl - Fort Worth, TX 76244 - 817-360-0810

I certify that the above work was performed in accordance with the current federal aviation regulations and referencing the current revision of the aircraft and/ or its appliances maintenance publications. The aircraft and its appliances were determined to be in an airworthy condition with respect to the work performed above and is approved for return to service. Details of work performed are on file with R + R Aircraft Service LLC under work order: N4485S 1-04-2024.

Kevin Roberts A&P IA 3936528



N4485S
#2 Engine Log



The Standard

ENGINE LOG

ASA-SE-2

Engine Record General Information

Manufacturer Continental Model I0-520-BB

Serial 569790 Type Certificate _____

This engine is currently installed in aircraft: N44855

Minimum Octane Fuel 100 Oil Grade Summer 50wt Winter _____

Magneto Time _____ Point Setting _____ Firing Order _____

Spark Plug Gap _____

Manufacturer's Recommended Overhaul at 1700 hours

YEAR 20 _____ 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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0002409 (03-10-2025)

MAKE: Beech
 MODEL: V35B Bonanza
 S/N: D-9785
 REG. NO: N4485S
 ENGINE MAKE: CONTINENTAL
 ENGINE MODEL: IO-520-BB
 ENGINE S/N: 569790



Aerospace Instrument Support
 1750 WESTCOURT RD
 DENTON, TX 76207

Page 1

W/O #: 0002409
 DATE: 03-10-2025
 Tach: 5984
 ETT: 5984
 ETSO: 1535
 AFTT: 5984

Engine Entries

- 2 Annual Inspection Engine... Performed Engine Annual Inspection using current Beech Bonanza 35 Series Inspection check list. Cylinder Cold compression readings as follows: 1) 58 2) 62 3) 70 4) 68 5) 55 6) 54 over 80. Drained oil, cut oil filter and inspected for debris, none found. Checked magneto to engine timing and adjusted as needed. Found #6 cylinder bottom spark plug to have broken ceramic electrode. See Item #14 for R&R of broken plug. #2 cyl. bottom plug failed tester. See Item #37 for R&R of #2 cyl. bottom plug. Removed, cleaned, gapped, tested and reinstalled spark plugs. Post maintenance run Ops and Leak Checks Okay. Researched AD's through this date. I certify this Engine has been Inspected IAW an Annual Inspection and has been found to be in an Airworthy Condition and is Approved for Return to Service.

I certify that the above work was performed in accordance with the current federal aviation regulations and referencing the current revision of the aircraft and/ or its appliances maintenance publications. The aircraft and its appliances were determined to be in an airworthy condition with respect to the work performed above and is approved for return to service. Details of work performed are on file with Aerospace Instrument Support under work order.

DATE: 03-10-2025

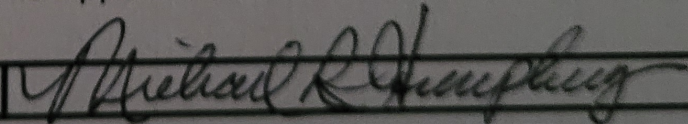
SIGNED:

Don Amborski
 A&P IA: 3934266

WORK ORDER: 0002409

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YEAR 20 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.)

	Engine Logbook Entry	IO-520-BB	N4485S
	MRH Aero Mechanix	23-Mar-26	
	1496 Thousand Oaks Drive	Tach 6025.99	
	Decatur, TX 76234	TSOH 1580.62	
<p>(Engine S/N: 569790) ----- Checked compressions and borescoped internal areas of cylinders in accordance with Continental Motors SB03-3. #1-59/80, #2-64/80, #3-70/80, #4-72/80, #5-67/80, #6-73/80. Compression gauge master orifice reading 44/80. ----- Drained engine oil and serviced with 10 qts of Aeroshell W100 Plus oil. Replaced engine oil filter with new Tempest AA48109-2 filter. Inspected element from removed oil filter for metal. No metal found. Ground run engine. Leak checked ok. ----- Removed Saf-Air engine oil drain valve due to internal leakage. Disassembled valve and cleaned parts. Reassembled valve with new o-rings (p/n: MS28775-012 and MS28775-011). Reinstalled valve onto engine sump and safetied. ----- Adjusted engine idle mixture and idle RPM. ----- Replaced RH exhaust muffler (p/n: A701-19) due to condition.----- All applicable Engine ADs complied with to date. See current ATP AD compliance record for details. ----- I certify that this Engine has been inspected in accordance with an Annual/100 hour inspection within scope and detail per the applicable sections of FAR part 43 Appendix D and was found to be in an airworthy condition. End.</p>			
Michael R. Humphrey A&P 3201695 IA			

1 / 1
2409
2025
34.96
34.96
39.59
34.96

409
om)

