

N35VC

1969 Cessna 401A

Right Engine Logbook



MSN: 401A0126

Prepared by the worldwide aviation specialists at RidgeAir, Inc.

100 VC
AFTER QUANTITY OVERFLOW
BY



**CERTIFIED
ENGINES
UNLIMITED, INC.**
OF
MIAMI, FLORIDA



The Standard
ENGINE LOG

AR-153

Engine Record General Information

Manufacturer: Teledyne Continental

Model TSIO-520 E(9)

Serial: 183932-R

Type Certificate: E8CE-23

**This engine is currently installed
in aircraft:** C-401 A (RH) N35VC

Minimum Octane Fuel: 100/100
LL

Oil Grade *Summer:* 50W
Winter: 40W

Magneto Time: 20° BTC

Spark Plug Gap: .016 - .021

Firing Order: 1-6-3-2-5-4

**Manufacturer's Recommended
TBO at 1400 hours**

Comments:

YEAR 20 <u>15</u> 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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This document is to serve as a certification of
Major Overhaul and Block Test Run by
Certified Engines Unlimited, Inc.

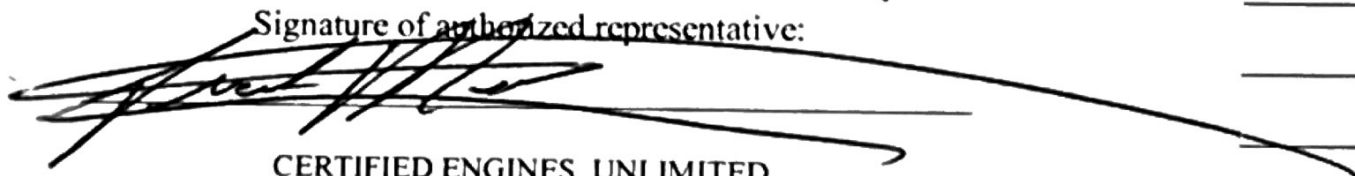
MFG: T.C.M. MODEL: TS10-520 E(9)
S/N: 183932-R TOTAL TIME: 4675.30 hrs

AD NOTES: SEE REAR OF LOGBOOK

Pertinent details of the work performed are on file at this agency under

Invoice/Work Order: 62493 / 45119 Date: 07/06/2015

Signature of authorized representative:



CERTIFIED ENGINES UNLIMITED
4000 NW 145th Street, Opa-locka, FL 33054 USA
Phone: 305-685-8331 Email: allen@ceu.aero
EASA.145.4301 FAA CRS KG4R309M

YEAR 20 15 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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CERTIFIED ENGINES UNLIMITED, INC. FAA CRS# KG4R309M
 4000 N.W. 145th Street, Airport, Opa-Locka, Florida 33054 Phone: (305) 685-8331
LIMITED OVERHAUL WARRANTY

1. Subject Matter and Scope of Warranty. Certified Engines Unlimited, Inc. (hereafter referred to as "CEU") warrants each overhauled engine to be free from defects in material workmanship. This Warranty is expressly subject to the terms and conditions set forth below and shall not apply outside the operational periods listed or to any engine which has been subject to misuse, neglect, accident or damage from the elements or which has been installed, repaired, maintained or altered in any manner which in the judgment of CEU has had an adverse effect on the performance or reliability of engine or part.

2. Time Limits. This Warranty for parts and labor extends for a period of nine (9) months from the date of service or two hundred (200) hours, whichever occurs first. An additional prorated warranty extends, parts only, to six hundred (600) hours on direct engines, and four hundred (400) hours on geared engines. CEU considers the frequent use and operation of an engine to be an integral factor in extending engine life. For this reason, CEU considers warranty hours based upon a minimum usage of 30 hours a month, regardless of actual operation hours.

3. Express Conditions. As a time and condition of this Warranty, the customer is required to follow factory recommended service procedures and maintenance guidelines.


4. Proper maintenance logbooks are to be kept by and maintained by the customer and shall be furnished to CEU on demand as a condition of the Warranty.

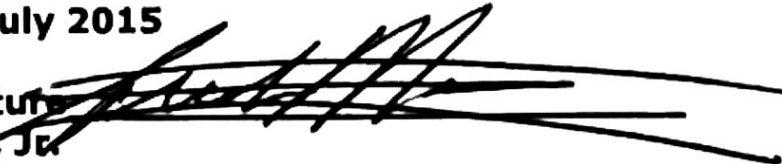
5. Limitations and Exclusions. All parts and labor are to be approved by CEU prior to commencement of work under this Warranty. CEU is responsible only for the cost of reasonable labor and materials necessary to repair or replace the parts CEU determines to be defective in material or workmanship at CEU's place of business, located at Opa-Locka, Florida. Under no circumstances shall CEU be responsible for charges in the removal and reinstallation of defective parts or engines.

6. THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES AND REPRESENTATIONS, EXPRESS OR IMPLIED, OR STATUTORY, WHETHER WRITTEN OR ORAL, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTY OF MERCHANTABILITY OR FITNESS AND FOR ANY PARTICULAR PURPOSE, AND ANY IMPLIED WARRANTY ARISING FROM ANY COURSE OF PERFORMANCE OR DEALING OR TRADE USAGE. THIS WARRANTY IS ALSO IN LIEU OF ANY OTHER OBLIGATION, LIABILITY, RIGHT OF CLAIM, WHETHER IN CONTRACT OR IN TORT, INCLUDING ANY RIGHT IN STRICT LIABILITY IN TORT OR ANY RIGHT ARISING FROM NEGLIGENCE ON THE PART OF CEU, AND CEU'S LIABILITY ON SUCH CLAIM SHALL IN NO CASE EXCEED THE PRICE ALLOCABLE TO THE ENGINE OR PART WHICH GIVES RISE TO THE CLAIM.

7. LIMITATION ON LIABILITY. IN NO EVENT, WHETHER AS A RESULT OF A BREACH OF WARRANTY, CONTRACT OR ALLEGED NEGLIGENCE, SHALL CEU BE LIABLE FOR SPECIAL OR CONSEQUENTIAL OR ANY OTHER DAMAGE, INCLUDING BUT NOT LIMITED TO, LOSS OF PROFITS OR REVENUES, LOSS OR USE OF THE ENGINE OR AIRCRAFT OR COST OF REPLACEMENT, PERSONAL INJURY OR FATALITIES, OR FLIGHT DELAYS OR CANCELLATIONS.

8. CRACKED CYLINDERS AND CRANKCASES ARE EXCLUDED FROM ALL WARRANTIES UNLESS IT CAN BE DETERMINED THAT THE DAMAGE IS A DIRECT AND PROXIMATE RESULT OF IMPROPER WORKMANSHIP BY CEU. ACCESSORY ITEMS ARE TO BE WARRANTED BY VENDOR OF SUCH ITEMS.

YEAR 20 / 5 DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations <small>Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)</small>
				 CERTIFIED ENGINES UNLIMITED, INC. FAA CRS# KG4R309M
				MAINTENANCE RELEASE
				The aircraft engine and/or component identified was repaired and inspected in accordance with current Federal Air Regulations and was found airworthy for return to service.
				<div style="display: flex; justify-content: space-around;"> <div style="width: 48%;"> <p style="text-align: center;">CAUTION!</p> <p>This engine has been run according to factory recommended procedures. Avoid prolonged ground run or slow flight as this causes new engine damage and will void warranty. For proper warranty coverage consult Certified Engines before any repairs or adjustments are made on the engine.</p> </div> <div style="width: 48%;"> <p style="text-align: center;">CAUTION!</p> <p>Warranty will be voided if all oil fed accessories are not cleaned, tagged and recorded in logbook at time of engine overhaul. eg. prop, prop governor, oil cooler, oil tank, & all fuel & oil lines.</p> </div> </div>
				Pertinent details of the repair are on file at this agency under:
				INV/WO# 62493/45119 Date 07/06/2015
				Signed [Signature] For: Certified Engines Unlimited
				(Signature of authorized individual)

YEAR 20 <u>15</u> DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
				<p>This Teledyne Continental engine, model TSIO-520 E(9), s/n 183932-R was Overhauled by Certified Engines Unlimited, Inc, of Opa Locka, Florida according to factory recommended procedures, specifications, limits, & pertinent Federal Aviation Regulations.</p> <p>All internal steel parts were magna-fluxed by Palm Beach Aircraft Propeller Inc., CRS#LU4R349M & all non-ferrous materials were checked for cracks. All the guidelines from Continental Overhaul Manual #X30574A were followed at time of overhaul.</p> <p>Installed 2 Magnetos, OHC by Quality Aircraft Accessories, CRS #R9QFR310C. Installed Throttle Body, Fuel Control Assy, Fuel Pump, & fuel Nozzles, OHC by Great Planes Fuel Metering, CRS # 1GPR022B. Installed Fuel Manifold Valve, OHC by Consolidated Fuel Systems, CRS # 9KPR369B. Installed Oil Cooler, OHC by Skyline Accessories, CRS # Y5KR213B. Installed Starter & Alternator, OHC by T&W Electrical Serv, CRS #TVER117K. Installed Alternator hub, OHC by Drake Air, CRS #II2R899K. Supplied Turbocharger, Waste Gate, Controller, & PRV, OHC by Approved Turbo Components, CRS #U5AR184Y. All tags received from accessory suppliers are located at rear of this logbook. No other accessories supplied during this overhaul.</p> <p>Installed Camshaft, reground to factory specs by D&S Cam Corp, CRS #D13R133Y. VAR style Crankshaft s/n 851583, ultrasonic inspection per MSB 96-10A by Palm Beach A/C Prop, CRS #LU4R349M. Installed Crankcase, OHC by Divco, Inc, CRS #DB2R762K. Six Factory NEW cylinder assemblies, a new Ignition Harness and a new set of Spark Plugs were also installed.</p> <p>Certified Engines Unltd ** Opa Locka, Fla USA ** FAA CRS #KG4R309M Inv/WO# 62493/45119 *** 06 July 2015</p> <p>Authorized Signature  Frank Neves, Jr</p>

YEAR	RECORDING	TODAY'S	TOTAL	Description of Inspections, Tests, Repairs and Alteratio
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20 16
DATE

All recommended parts listed in the Continental Overhaul Manual & Service Bulletin SB#97-6 were installed at time of this overhaul..(see list below): *FAA-PMA Parts are frequently substituted for Teledyne Continental Motors factory parts.

8	SA642917-1	INTAKE HOSE	1	633281	HOSE
1	632767	SLEEVE-COUPING	1	641250	SEAL ASM NOSE
2	SA642917-1	INTAKE HOSE	1	24770	C/S PLUG
1	630680	BEARING-ROLLER	4	SA638172	MAG DRIVE CUSHION
1	641368	BEARING NEEDLE	6	SA530658	CONN ROD BUSHING
8	AEC350998	BUSHING, COUNTERWEIGHT	12	655961	BOLT CONN ROD
16	SA639193	C/WEIGHT BUSHING	12	654490	NUT-CONNECTING ROD
4	SA643626-101	C/W PIN	4	649205	SCREW
2	SA643626-104	C/W PIN	2	SA641909	PLATE
2	SA643626-103	C/W PIN	12	AEC630826M010	BEARING, CONNECTING ROD
16	AEC629104	RING, RETAINING	1	501867	WASHER-TAB
16	SA643629	RETAINING PLATE	1	X13041	BEARING-BALL
1	AEC646593-A1M01	BEARING SET, FRONT DRIVE	1	S539800 M30	CLUTCH SPRING
6	SA536379	SCREW	1	502287-3	RING-RETAINING-INT
4	654587-.44	BOLT-.3125-24 UNF3A	12	SA652984	ROCKER ARM SHAFT
6	SA646277	LIFTER	12	653309	WASHER, PLAIN
6	SA628488	LIFTER	12	MS90725-12	BOLT, HEX
2	MS35756-8	KEY WOODRUFF	1	AA9144	PROP GOVERNOR GASKET
2	SA632443-4	NUT	1	521649-3	RING-EXT RETAIN
1	SA646550-A1	GASKET SET	1	534685	BEARING-BALL
1	646551A1	GASKET SET/SUPPLEMENTAL	8	AS3578-016	SEAL-"O" RING
1	628555-1	HOSE	1	10-423674-1	HARNES IGNITION
1	628555-2	HOSE	6	SA633958-5	SEAL
1	630817-4	CONVOLUTED BELLWS	6	SA633958-3	SEAL
6	SA630046	PISTON PIN	12	652129	ROCK ARM BUSHING
1	CH48108-1	OIL FILTER	1	HOSE	HOSE KIT
24	MS20500-428	EXHAUST NUT	4	J9613-58	ENGINE MOUNT
12	RHB32E	SPARK PLUG	1	658175A4BP	CYL ASSYS(6) BALANCED & LOADED

After final assembly, this engine was run-in on test stand for a period of three hours with all temperatures, pressures & performances within those limits as prescribed by the factory. Oil filter checked clean.

Airworthiness directives complied with at overhaul are listed at the rear of this logbook. This engine is acceptable for return to normal service.

Certified Engines Unltd ** Opa Locka, Fla USA ** FAA CRS #KG4R309M
Inv/WO# 62493/45119 *** 06 July 2015

Authorized Signature
Frank Neves, Jr.

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AIRCRAFT
MAINTENANCE OF MAINE

100 Yellowbird Road
Portland, ME 04102
Phone: 207-773-8179
Fax: 207-773-2579

5880.3 For Hobbs of 0.0

Manufacturer Cessna
Actt Time: 6021.2
Engine #1:
Engine #2: TCM
Prop#1:
Prop#2:

Model: 401A
Hobbs: 140.9
Model:
Model: TSIO-520-E (9)
Model:
Model:

Serial#: 401A0126
Serial#:
Serial#: 183932-R
Serial#:
Serial#:

REG#: 35vc Date: 3/2/2016
TSN: TSO:
TSN: 4675.3 TSO: 0
TSN: TSO:
TSN: TSO:

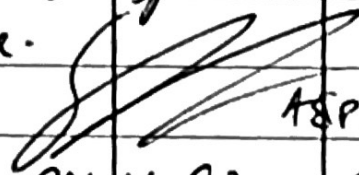


RH ENGINE LOG ENTRY

This engine S/N 183932-R installed in the R/H position of N35VC using new mounts P/N J9613-58 and new locking tabs, Overhauled components, Manifold Valve P/N 6343326-11A3, S/N K058027RA, Throttle Body P/N 632916-8, S/N A00H055R, Fuel Pump P/N 646210-2, S/N D279507BR, Oil Cooler 654580, S/N I04-2145-384, Alternator P/N ALV 9410-R, S/N H-N121048, Starter MHJ 4002R, S/N 2L000083, Turbocharger P/N 4066-10-9025, S/N JDR00045, P.R.V. P/N, 470930-4, S/N KHR0125, Wastegate P/N 5050154-16, S/n HH0120, Magneto P/N 10-163020-3, S/N E19515ER, P/N 10163060-1, S/N D229402ER, Repaired baffle and installed new bafflr seals, all exhaust from slip joints to turbo mount replaced, repaired cracked manifold pressure line, rigged throttle and mixture controls, adjusted idle, installed previously remove prop gov. vacuum pump and tach generator using new gaskets.. Engine compartment degreased. Serviced engine with Phillips 20W50 Mineral oil. Engine ran to op's and leak check. No leaks detected.

I certify that this Engine has been inspected IAW an Annual Inspection and was found to be in airworthy condition.

David Carter

NAME: David Carter 2288142 IA

YEAR 20 <u>17</u> 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.)
4/13	159.5	5170H	18.6	Drained oil, replaced filters & serviced engine with 12 qts Aeroshell 15W50. No metal found in old filter. Cleaned, gapped and rotated plugs. Magneto timing checked. Compressions checked. #1 - 75, #2 - 76, #3 - 75, #4 - 72, #5 - 73, #6 - 72. All over 80. Tied up misc wires in engine compartment. CW AD 00-01-06 50 hr inspection of Exhaust system. AD (f) due Hobbs 859.3 (g) due Hobbs 2640.7. This Engine inspected FAW 100hr inspection and is approved for return to service.  AEP3026470JA
7/27/17	232.9	SMITH 92		CW AD 00-01-16 para. (b), (c), (e). No defects noted. Next due (b) hobbs 282.9 or 6158.2 TT, (c) 7/2018, (e) 7/2018.  AEP3026470
8/22/17	259.4		118.5	Removed starter. Installed overhauled starter P/N MHT 4003R SN H-R060720. Ground test good. Aircraft returned to service.  AEP3026470JA

[illegible]

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TT AVIATION

RIGHT ENGINE LOG BOOK ENTRY

HOBBS: 303.8 SMOH: 162.9

DATE: 12/31/2018

REG: N35VC

CONTINENTAL TSIO-520-E

S/N: 183932-R

PERFORM ENGINE 100 HOUR INSPECTION IAW CESSNA 401/402 SERVICE MANUAL INSPECTION CHECKLIST.

COMPRESSIONS (X/80psi): 1 - 71, 2 - 67, 3 - 77, 4 - 74, 5 - 69, 6 - 71. MAGNETO TIMING L - 19°, R - 19°, SPEC 20±2°.

CLEAN, GAP & ROTATE SPARK PLUGS. OIL CHANGE - DRAIN OIL, REMOVE, CUT & INSPECT OIL FILTER - NO DEFECTS

FOUND. INSTALL NEW TEMPEST AA48109 FILTER. SERVICE ENGINE W/ AEROSHELL 15W-50 OIL. SERVICE FCU FUEL

SCREEN, NO DEFECTS FOUND. INSTALL W/ NEW GASKET P/N: 649983 & SAFETY. REMOVE FUEL INJECTOR NOZZLES,

SOAK IN HOPPES 9 SOLVENT, BLOW CLEAN W/ SPRAY SOLVENT & COMPRESSED AIR. INSTALL W/ ANTI-SEIZE, NEW

RUBBER WASHERS (6) P/N: 640612, (12) O-RINGS P/N: 630979-9. WASH ENGINE, COWLS & FIREWALL. REPAIRS:

REMOVE TURBOCHARGER, CLEAN MATING SURFACES AND INSTALL WITH NEW INLET MANIFOLD GASKETS (4) P/N:

636465. INSTALL TURBO W/ ALL NEW LOCKING HARDWARE, RE-TORQUE V-BANDS AFTER RUN-UP & SAFETY. REPLACE

WASTEGATE OIL FITTING O-RINGS (2) P/N: MS28778-4. REPLACE ROCKER COVER GASKETS (6) P/N: SA534857. SECURE

LOOSE WIRING, HOSES, DUCTS & CABLES USING NYLON TIES, ADEL CLAMPS AND RUBBER STAND-OFFS AS NEEDED.

REMOVE L/H MAGNETO, CLEAN POINTS & SET INTERNAL TIMING, E-GAP AND RETARD POINT GAP IAW TCM S-20/S-200

SERIES MAGNETO SERVICE MANUAL. INSTALL & TIME MAGNETO TO 20°. C/W AD 00-01-16 EXHAUST SYSTEM CRACKS

& CORROSION BY INSPECTING EXHAUST IAW PARAs (b), (c) & (e) - NO DEFECTS FOUND. PARA (b) NEXT DUE HOBBS

353.8, PARAs (c,e) NEXT DUE HOBBS 403.8. PERFORM GROUND RUN-UP, ALL PARAMETERS NORMAL, ALL CHECKS

PASSED.

WORK PERFORMED IAW CMI TSIO-520 "PERMOLD SERIES" MAINTENANCE MANUAL AND CURRENT FAA REGULATIONS.

ENGINE IS APPROVED FOR RETURN TO SERVICE WITH RESPECT TO THE WORK PERFORMED.

SIGN:

Todd Harris

A&P

3235408

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	N35VC	04/02/2019	Hobbs: 307.5 TSMOH: 166.6	RE Compression check #1-74/80, #2-73/80, #3-74/80, #4-72/80, #5-69/80, #6-79/80. Replaced BA12 induction air filter. Check timing, clean and gap plugs. Ex. inspected and psi test ok I certify this engine has been inspected IAW an annual/100hr. inspection IAW Continental, and FAR 43 13. All AD's and SB's C/W. Cleaned and ran engine OK. Approved for return to service. Z. Sipp Tim Sipp 3071998 IA
4-30-20	Hobbs 366.0			Replaced turbo to exhaust clamp @ new
	6,246.3	TT		Denn Cooley 3220766 A&P

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				N35VC Date: 2/27/2023 TSIO520E TTAF 6491.8 Right Complied with AD2023-04-08 by checking engine and crankshaft serial numbers in accordance with Continental MSB23-01A issued 2/13/2023, revised 2/16/2023. Engine Serial Number 183932-R was not included in MSB. Crankshaft S/N 851583 was not included in MSB. This AD not applicable. Dave Warren AP27669001A <i>Dave Warren</i>
4-4-2023 Hobbs	611.6			Compressions 1-72 3-75 4-76 5-77 Replaced
TTAF	6491.8			#2 and #6 cyl with O/H cyl, cleaned and
ETSOH	470.6			Tested SPARK Plugs checked Mag Timing.
				Changed oil and Filter Serviced with
				11 QT Aeroshell 15W-50 I certify That This
				Engine has been Inspected J.A.W. an Annual
				Inspection and was determined To be Airworthy
				ABP 3616252 IA <i>Shelly J</i>

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4/4/25	Hobbs	675.5	TT 5209.8	SM 0H 534.5 Prop 50H 0.0 compression
Test 1	76/80	2 72/80	3 72/80	4 70/80 5 74/80 6 74/80 Installed overhauled
3AF32C504	propeller	SN 961483	changed oil + filter, Aeroshell	15W50, inspected old filter ok, clean + gap plugs, R+R maps for
500 hr inspection, see yellow tags, cleaned fuel injectors and fuel	control inlet screen, replaced bracket air filter element, inspected	turboschargers, inspect exhaust system, per AD 00-01-16 para	a, b, c, d + e, inspected engine mounting and checked control	travels. AD notes checked through 20-06 see AD list for status of
AD notes. I certify this engine has been inspected in accordance	with an annual inspection and was determined to be in	airworthy condition. Raymond J. Block AIP 21652281A		

