

ANOTHER QUALITY OVERHAUL

BY



CERTIFIED
ENGINES
UNLIMITED, INC.
OF
MIAMI, FLORIDA



The Standard

ENGINE LOG

ASX1-614-2

Manufacturer: Teledyne Continental

Model IO-550 B(39)

Serial: 685967

Type Certificate: E3SO-REV 11

**This engine is currently installed
in aircraft:** A-36 N459P

Minimum Octane Fuel:
100/100LL

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

Magneto Time: 22° BTC

Spark Plug Gap: .016 - .021

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

**Manufacturer's Recommended
TBO at 1700 hours**

Comments:

YEAR 2017 DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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This document is to serve as a certification of
Overhaul and Block Test Run by
Certified Engines Unlimited, Inc.

MFG: T.C.M MODEL: TD-550 B(39)
S/N: 685967 TOTAL TIME: 1595.70 hrs

AD NOTES: SEE REAR OF LOGBOOK

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

Invoice/Work Order: 66536, 49653 Date: 12/8/2017

Signature of authorized representative:

CERTIFIED ENGINES UNLIMITED, INC.
1630 S.W. 75th Ave/ Hangar, Pembroke Pines, FL 33023 USA
Phone: 305-685-8331 Email: allen@ceu.aero
EASA.145.4301 FAA CRS KG4R309M
INAC OMAC-E # 264

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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

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

CAUTION! 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.

CAUTION! 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.

For proper warranty coverage consult Certified Engines before any repairs or adjustments are made on the engine.

Pertinent details of the repair are on file at this agency under:

INV/WO# 66536/49653 Date 12/21/2017

Signed [Signature]
(Signature of authorized individual) For: Certified Engines Unlimited

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.)
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This engine, model Continental IO-550 B(39), s/n 685967, was Overhauled by Certified Engines Unlimited, Inc., of Pembroke Pines, Florida according to factory recommended procedures, specifications, limits & pertinent Federal Aviation Regulations.

All internal steel parts were magnafluxed & all non-ferrous materials were checked for cracks by Palm Beach Aircraft Propeller CRS#LU4R349M. Guidelines from the Continental Overhaul Manual X30568A were followed at time of overhaul.

Installed 2 Bendix Magnetos, OHC by Quality A/C Access, CRS #9QFR310C. Installed Starter & Alternator, OHC by Aerotech of Louisville, CRS # PU4R453M. (installed serviceable alternator hub). Installed Fuel Injection System, OHC by Consolidated Fuel Systems, CRS #9KPR369B. Installed Oil Cooler, OHC by Skyline Access, CRS # Y5KR213B. All tags received from the accessory suppliers are located at the rear of this logbook.

Installed Camshaft, reground to manufacturer specifications by D&S Cam Corp, CRS # D13R133Y. The VAR style crankshaft s/n N02CA173, ultrasonic inspected per TCM MSB#96-10A by Palm Beach A/C Propellers, CRS #LU4R349M. Six NEW Millennium standard cast steel Cyl Assemblies(n/a to any present AD's or SB's), a new ignition harness & a new set of spark plugs were installed.

Certified Engines Unltd Inc. * Pembroke Pines, Fl 33023 USA * FAA CRS#KG4R309M
Inv/wo#66536/49653 date: 21 December 2017

Authorized Signature: [Signature]
Frank Neves, Jr.

YEAR
2017
DATE

All recommended parts listed in the Continental Overhaul Manual & Service Bulletin SB#97-6B were installed at time of this overhaul....(see list below):

*FAA-PMA Parts are frequently substituted for Teledyne Continental factory parts.

10	654439-1	HOSE INTAKE	1	630899	BEARING-ROLLER
1	641250	SEAL ASM NOSE	1	641368	BEARING NEEDLE
1	24770	C/S PLUG	8	SA350998	C/SHAFT BLADE BUSHING
4	SA638172	MAG DRIVE CUSHION	16	SA639193	C/WEIGHT BUSHING
1	630680	BEARING-ROLLER	1	534715	RING-INT RETAINING
4	SA643626-105	C/W PIN	1	S539800 M40	CLUTCH SPRING
2	SA643626-104	C/W PIN	1	502287-3	RING-RETAINING-INT
2	SA643626-103	C/W PIN	12	MS90725-12	BOLT, HEX
16	629104	RING-SNAP-CWT PLATE RET	12	653309	WASHER, PLAIN
16	SA643629	RETAINING PLATE	12	SA652984	ROCKER ARM SHAFT
1	SA646592-A1	BEARING SET	1	MS9144-01	.ROP GOVERNOR GASKET
6	SA536379	SCREW	1	521649-3	RING-EXT RETAIN
4	654587-44	BOLT-.3125-24 UNF3A	1	534685	BEARING-BALL
6	SA646277	LIFTER	8	AS3578-016	SEAL-"O" RING
6	SA628488	LIFTER	1	MS24665-302	PIN-COTTER .09X1.00 LG
3	MS35756-8	KEY, WOODRUFF	1	630691	WASHER-ALT DR HUB ASM
2	SA632443-4	NUT	1	653359	COUPLING-FUEL PUMP
1	SA646550-A1	GASKET SET	1	10-423684-1	IGNITION HARNESS MAG
6	SA630046	PISTON PIN	1	634150	SPRING OIL PRES REL
1	CH48108-1	OIL FILTER	1	656816	GEAR - CAM
24	MS20500-428	EXHAUST NUT	12	652129	ROCK ARM BUSHING
12	RHB32E	SPARK PLUG	1	539023	HOSE
6	SA530658	CONN ROD BUSHING	6	SA52006-A23P	MILLENNIUM STD CAST CYL ASSYS
12	655958	BOLT-CONN ROD			
12	654490	NUT-CONNECTING ROD			
12	SA642398	CONN ROD BEARING			
1	501867	WASHER-TAB			
1	X13041	BEARING-BALL			
2	SA641909	PLATE			
4	SA649205	SCREW			

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 during this overhaul are listed at the rear of this logbook. This engine is acceptable for return to normal service.

Certified Engines Unltd Inc. * Pembroke Pines, Fl 33023 USA * FAA CRS#KG4R309M
Inv/wo#66536/49653 date: 21 December 2017

Authorized Signature: 
Frank Neves, Jr.

YEAR
20
DATE

RECORDING
TACH

TODAY'S
FLIGHT


TOTAL
TIME IN

Description of Inspections, Tests, Repairs and Alterations
Entries must be endorsed with...



Baker Aviation 333 South Street, New Smyrna, FL 386-837-4073		ELT Battery Date	Nov 2018
		Engine Type	IO-550-B(39)
Date:	01/27/18	Serial Number	685967
Registration:	N459P	TTSMOH:	0.0
Make/ Model:	G-36	TTIS:	1595.7
Serial Number:	E-3852	Propeller Type	PHC-C3YF-1RF
Tach / Hobbs:	4023.5	Serial Number	EE6190B
TTAF:	4023.5	TTSMOH:	0.0
		TTIS:	2021.5

- Performed Annual Inspection in accordance with FAR 43 appendix D and the Bonanza 33, 35, & 36 Annual Long Form Inspection Guide, reissued March 1985.
- Removed Engine IO-550-B(39) s/n 685975 and installed overhauled engine IO-550-B(39) s/n 685967. See Overhaul Entry by Certified Engines for complete details.
- Replaced all engine mounts rubbers with new.
- Replaced all hoses with new.
- Installed D'Shannon Products cooling air baffles in accordance with STC SA368CH and Installation Manual No. DSP-IM95-2, revision 6, dated April 16, 2002 or later FAA Approved revision. FAA Form 337 filed this date.
- Replaced A/C hoses with new.
- Replaced induction air filter with new.
- Installed low time, serviceable McCauley prop governor.
- Replaced all engine compartment air ducting with new.
- Replaced prop de-ice brush assembly with new.
- Lubed all engine controls.
- Run-up, mag check, prop check, fuel pressure & flow check, idle & mixture check satisfactory.
- All AD's researched through this date.
- I certify this ENGINE has been inspected in accordance with an Annual inspection and is found to be in an airworthy condition.
- I certify the above work was performed in reference to Manufacturer's specifications and applicable FAR's. I approve this aircraft for return to service.


James Curtis Boulware A&P 3232817 IA


FND

YEAR _____
20____
DATE _____

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tries.)




Baker Aviation	
333 South Street, New Smyrna, FL 386-837-4073	
Date:	09/25/18
Registration:	N459P
Make/ Model:	G-36
Serial Number:	E-3852
Tach / Hobbs:	4297.4
TTAF:	4297.4

- Drained oil and serviced engine with 11 quarts Aeroshell W100 and new Tempest AA48109-1 oil filter. Cut old filter and inspected for contaminants. None noted.
- I approve this work for return to service.

- Curtis Boulware A&P 3232817 IA




Baker Aviation	
333 South Street, New Smyrna, FL 386-837-4073	
Date:	12/19/18
Registration:	N459P
Make/ Model:	G-36
Serial Number:	E-3852
Tach / Hobbs:	4412.5
TTAF:	4412.5

- Drained oil and serviced engine with 11 quarts Aeroshell W100 and new Tempest AA48109-1 oil filter. Cut old filter and inspected for contaminants. None noted.
- I approve this work for return to service.

- Curtis Boulware A&P 3232817 IA

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		Baker Aviation		ELT Battery Date	Jan 2021
		333 South Street, New Smyrna, FL 386-837-4073		Engine Type	IO-550-B(39)
Date:	02/12/19	Serial Number	685967	TTSMOH:	447.9
Registration:	N459P	TTIS:	2043.6	Propeller Type	PHC-C3YF-1RF
Make/ Model:	G-36	Serial Number	EE6190B	TTSMOH:	447.9
Serial Number:	E-3852	TTIS:	2469.4		
Tach / Hobbs:	4471.4				
TAF:	4471.4				

- Performed Annual Inspection in accordance with FAR 43 appendix D and the Bonanza 33, 35, & 36 Annual Long Form Inspection Guide, reissued March 1985.
- Performed Compression check, numbers listed below. Compression check performed using TCM master orifice. Failing indication is 42/80 or below.
- (1) 70/80 (2) 60/80 (3) 66/80 (4) 68/80 (5) 58/80 (6) 66/80
- Removed, cleaned, and re-installed fuel injector nozzles.
- Replaced all spark plugs with new URHB32E
- Check fuel screen for contaminants. None noted.
- Replaced oil filler cap gasket with new.
- Lubed all engine controls.
- Drained oil and serviced engine with 11 quarts Aeroshell W100 and new Tempest AA48109-1 oil filter. Cut old filter and inspected for contaminants. None noted.
- Adjust left tailpipe from rubbing on cowl flap.
- All AD's researched through this date.
- I certify this **ENGINE** has been inspected in accordance with an **Annual** inspection and is found to be in an airworthy condition.
- All work performed in reference to manufacturers specifications. I approve this airplane for return to service.



Timothy Morris A&P 3455833 IA

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3-21-2019
N459P, E-3852
Hobbs: 4520.0

- Drained engine oil and serviced with 11 quarts Aeroshell 100W and new tempest AA48109-1 filter.
 - o Cut old filter to check for contaminants, none noted.
- Engine run and and leak tested normally.
- I approve this work for return to service.



Curtis Boulware A&P 3232817 IA

6-26-2019
N459P, E-3852
Hobbs: 4650.5

- Drained engine oil and serviced with 11 quarts Aeroshell 100W and new tempest AA48109-1 filter.
 - o Cut old filter to check for contaminants, none noted.
- Engine run and and leak tested normally.
- I approve this work for return to service.



Curtis Boulware A&P 3232817 IA