

THE **adlog**™ AIRCRAFT
MAINTENANCE
RECORDKEEPING
SYSTEM

**ENGINE
MAINTENANCE
RECORDS**



ENGINE MAINTENANCE RECORDS

Log No. _____

Manufacturer: Teledyne Continental **Model** IO-520 A(6)

Serial: 112209-70-A-R

Type Certificate: E5CE REV 26

**This engine is currently installed
in aircraft:** COMMANDER MEYERS
200 N2943T

Minimum Octane Fuel: 100/100
LL

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:

(All applicable information must be filled in)



AEROTECH PUBLICATIONS INC.

P.O. Box 1359 / Southold, NY 11971-0965
(631) 765-9375

1-800-235-6444

FAX: (631) 765-9359

©2000 Aerotech Publications, Inc.

This document is to serve as a certification of
Overhaul and Block Test Run by
Certified Engines Unlimited, Inc.

MFG: T.C.W

S/N: 112209-70-A-R TOTAL TIME: 2240.30 A (6)

AD NOTES: SEE REAR OF LOGBOOK

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

Invoice/Work Order: 75508 158937

Date: 10/19/2022

Signature of authorized representative

CERTIFIED ENGINES UNLIMITED, INC.
7, 75th Ave/W. Hangar, Pembroke Pines, FL 33023 USA
Phone: 305-685-8331 Email: allen@ceu.aero
145.4301 FAA CRS KG4R309M
OMAC-E # 264

CERTIFIED ENGINES UNLIMITED, INC. FAA CRS# KG4R309M
1630 SW 75th Ave. Pembroke Pines, Florida 33023 Phone :(305)685-8333

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 Pembroke Pines, Florida. Under no circumstances shall CEU be responsible for charges in the removal and reinstatement of defective parts or engines.

6. THIS WARRANTY IS EXCLUSIVE AND IN LUEU 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 LUEU 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 NEGIGENCE, 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.



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.

CAUTION!

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!

CAUTION!
Warranty will be voided if all oil fed accessories are not cleaned, tagged and recorded in logbook at time of engine overhaul.e.g. prop, prop governor, oil cooler, oil tank, & all fuel & oil lines.

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

adjustments are made to the economy under

Pertinent details of the repair are on file at [redacted]

Signed John Doe
(Signature)

Unlimited

FAA Airworthiness Directives Compliance Record

Company:

Category: Engine

Manufacturer: Teledyne Continental

Model: IO-520-A

Position:

P/N: 10-520-A (6)

S/N: 112209-70-A-R

Aircraft Registration No:

ATP Revision: 10/19/2022

Issue Number Effective Date Amendment #	Description	Complied	Method of Compliance	Recur	Next Due	Facility Cert No. / Type Authorized By Signed
2022-16-03 8/15/2022	To Prevent Failure of the Magneto. The Unsafe Condition, if Not Addressed, Could Result in Failure of One or More Engines, In-Flight Shutdown, and Loss of the Airplane	10/19/2022 Hrs: -- C: --	N/A MODEL AT TIME OF ENGINE OVERHAUL	No	D: -- Hrs: -- C: --	Certified Engines Unlimited, Inc. KG4R309M/FAA CRS Frank Neves, Jr.
2022-04-04 3/29/2022	To Prevent Loss of Engine Power. The Unsafe Condition, if Not Addressed, Could Result in Failure of the Engine, In-Flight Shutdown, and Loss of Control of the Aircraft	10/19/2022 Hrs: -- C: --	N/A Stratus Tool Technologies, LLC (Stratus) oil filter adapter not installed at time of engine overhaul.	No	D: -- Hrs: -- C: --	Certified Engines Unlimited, Inc. KG4R309M/FAA CRS Frank Neves, Jr.
2016-16-12 9/15/2016	To prevent failure of the cylinder assemblies, which could lead to failure of the engine, in-flight, cont'd.	10/19/2022 Hrs: -- C: --	N/A E.C.I. CYLINDERS NOT INSTALLED AT TIME OF ENGINE OVERHAUL	No	D: -- Hrs: -- C: --	Certified Engines Unlimited, Inc. KG4R309M/FAA CRS Frank Neves, Jr.
2014-05-29 4/25/2014	[Recurring] To prevent the separation of the cylinder head, damage to the engine, and damage to the airplane	10/19/2022 Hrs: -- C: --	N/A Superior Air Parts, Inc. cylinder assemblies not installed at time of engine overhaul	Yes	D: -- Hrs: -- C: --	Certified Engines Unlimited, Inc. KG4R309M/FAA CRS Frank Neves, Jr.
2012-03-06 C 2/24/2012	To prevent an in-flight engine shutdown due to a failed fuel servo diaphragm, and damage to the airplane	10/19/2022 Hrs: -- C: --	N/A AVStar Fuel Systems, Inc.	No	D: -- Hrs: -- C: --	Certified Engines Unlimited, Inc. KG4R309M/FAA CRS Frank Neves, Jr.

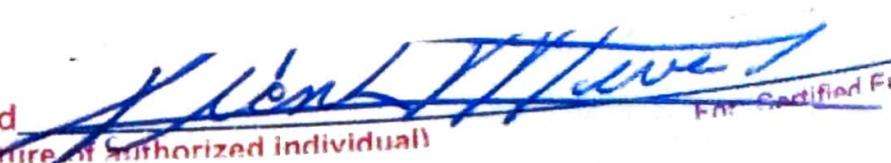
©ATP

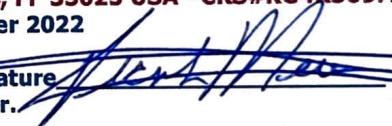
1/5

10/19/2022 10:21:00 AM

Signed

(Signature of Authorized Individual)


 Frank Neves, Jr.
Certified Engines Unlimited, Inc.

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED – SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK																																																																																																																																																						
				<p>This Continental Motors engine, model IO-520 A(6), s/n 112209-70-A-R, was Overhauled by Certified Engines Unlimited, Inc., of Pembroke Pines, Florida according to factory recommended procedures, specifications, limits and 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. Guidelines from the Continental Overhaul Manual X30039A & Maint Manual M-O were followed at time of overhaul.</p> <p>Installed Slick Magnetos, OHC by Quality A/C Accessories, CRS # 9QFR310C. Installed Starter, OHC by OHC by Aerotech of Louisville, CRS # PU4R453M. Installed Fuel Injection System, OHC by Consolidated fuel System, CRS # 9KPR369B. Installed Oil Cooler, OHC by Pacific Oil Cooler Serv, CRS # RF3R813L. All 8130-3 forms received from the accessory suppliers are located at the rear of this logbook. No other accessories were supplied per customer request.</p> <p>Installed Camshaft, reground to fact specs by A/C Specialties, CRS # DD2R764K. The VAR style crankshaft, S/N N15AA035, was ultrasonic inspected per TCM MSB#96-10B by Palm Beach A/C Propellers, CRS # LU4R349M. Installed Six nickel plated Cyl Assys, OHC by J&J Airparts, CRS # JE2R921K & NEW Champion spark plugs. Harness reused per customer request.</p>																																																																																																																																																						
				<p>Certified Engines Unltd * Pembroke Pines, Fl 33023 USA *CRS#KG4R309M Invoice/wo#75508/58937 *** 19 October 2022</p> <p>Authorized Signature  Frank Neves, Jr.</p>																																																																																																																																																						
				<p>Recommended parts listed in the Continental OH Manual were installed at time of this overhaul...(see list below):*FAA-PMA Parts are frequently substituted for Teledyne Continental Motors factory parts.</p> <table border="1"> <tbody> <tr><td>2</td><td>SA643626-104</td><td>C/W PIN</td><td>10</td><td>SA642917-1</td><td>INTAKE HOSE</td></tr> <tr><td></td><td>SA643626-103</td><td>C/W PIN</td><td>1</td><td>SA641250</td><td>CRANK SEAL</td></tr> <tr><td>16</td><td>SA629104</td><td>LOCK RING</td><td>1</td><td>24770</td><td>C/S PLUG</td></tr> <tr><td>16</td><td>SA643629</td><td>RETAINING PLATE</td><td>4</td><td>SA638172</td><td>MAG DRIVE CUSHION</td></tr> <tr><td>1</td><td>SA646588-A1</td><td>BEARING SET</td><td>1</td><td>SA537721</td><td>BEARING</td></tr> <tr><td>6</td><td>656990</td><td>C/S GEAR SCREW</td><td>1</td><td>SA641388</td><td>BEARING</td></tr> <tr><td>4</td><td>SA535666</td><td>SCREW</td><td>8</td><td>SA350998</td><td>C/SHAFT BLADE BUSHING</td></tr> <tr><td>6</td><td>SA646277</td><td>LIFTER</td><td>16</td><td>SA639193</td><td>C/WEIGHT BUSHING</td></tr> <tr><td>6</td><td>SA628488</td><td>LIFTER</td><td>4</td><td>SA643626-101</td><td>C/W PIN</td></tr> <tr><td>3</td><td>MS35756-8</td><td>KEY WOODRUFF NUT</td><td>1</td><td>HET55015-4</td><td>RING-RETAINING-INT 522100</td></tr> <tr><td>2</td><td>SA632443A-4</td><td>GASKET SET</td><td>12</td><td>MS90725-12</td><td>BOLT, HEX</td></tr> <tr><td>1</td><td>SA646546-A1</td><td>PISTON PIN</td><td>12</td><td>SA652984</td><td>ROCKER ARM SHAFT</td></tr> <tr><td>6</td><td>SA630046</td><td>OIL FILTER, SPIN-ON</td><td>12</td><td>SA652947</td><td>WASHER</td></tr> <tr><td>1</td><td>AA48108-2</td><td>EXHAUST NUT</td><td>1</td><td>AA9144</td><td>PROP GOVERNOR GASKET</td></tr> <tr><td>24</td><td>MS20500-42B</td><td>SPARE PLUG</td><td>1</td><td>HET55018</td><td>BEARING BALL</td></tr> <tr><td>12</td><td>RHB32E</td><td>CONN ROD BUSHING</td><td>8</td><td>AS3578-016</td><td>SEAL-"O" RING</td></tr> <tr><td>6</td><td>SA530658</td><td>CONN ROD BOLT</td><td>1</td><td>634150</td><td>SPRING OIL PRES REL</td></tr> <tr><td>12</td><td>SA629340</td><td>CONN ROD NUT</td><td>1</td><td>EE6993</td><td>MAJOR O/H THRU BOLT-KIT</td></tr> <tr><td>12</td><td>SA628109</td><td>COTTER PIN</td><td>24</td><td>SA639829</td><td>ROCKER ARM BUSHING</td></tr> <tr><td>12</td><td>MS24685-229</td><td>CONN ROD BEARING</td><td>2</td><td>6310</td><td>MAGNETO, OHC</td></tr> <tr><td>12</td><td>SA630826</td><td>WASHER-TAB</td><td>6</td><td>J&J</td><td>OHC CYL ASSY W/NICKLE PLATING</td></tr> <tr><td>1</td><td>501867</td><td>BEARING- BALL - RADIAL</td><td></td><td></td><td></td></tr> <tr><td>1</td><td>HET55257</td><td>RING-INT RETAINING</td><td></td><td></td><td></td></tr> <tr><td>1</td><td>HET55019</td><td>CLUTCH SPRING</td><td></td><td></td><td></td></tr> <tr><td>1</td><td>CAM539800 M15</td><td></td><td></td><td></td><td></td></tr> </tbody> </table>	2	SA643626-104	C/W PIN	10	SA642917-1	INTAKE HOSE		SA643626-103	C/W PIN	1	SA641250	CRANK SEAL	16	SA629104	LOCK RING	1	24770	C/S PLUG	16	SA643629	RETAINING PLATE	4	SA638172	MAG DRIVE CUSHION	1	SA646588-A1	BEARING SET	1	SA537721	BEARING	6	656990	C/S GEAR SCREW	1	SA641388	BEARING	4	SA535666	SCREW	8	SA350998	C/SHAFT BLADE BUSHING	6	SA646277	LIFTER	16	SA639193	C/WEIGHT BUSHING	6	SA628488	LIFTER	4	SA643626-101	C/W PIN	3	MS35756-8	KEY WOODRUFF NUT	1	HET55015-4	RING-RETAINING-INT 522100	2	SA632443A-4	GASKET SET	12	MS90725-12	BOLT, HEX	1	SA646546-A1	PISTON PIN	12	SA652984	ROCKER ARM SHAFT	6	SA630046	OIL FILTER, SPIN-ON	12	SA652947	WASHER	1	AA48108-2	EXHAUST NUT	1	AA9144	PROP GOVERNOR GASKET	24	MS20500-42B	SPARE PLUG	1	HET55018	BEARING BALL	12	RHB32E	CONN ROD BUSHING	8	AS3578-016	SEAL-"O" RING	6	SA530658	CONN ROD BOLT	1	634150	SPRING OIL PRES REL	12	SA629340	CONN ROD NUT	1	EE6993	MAJOR O/H THRU BOLT-KIT	12	SA628109	COTTER PIN	24	SA639829	ROCKER ARM BUSHING	12	MS24685-229	CONN ROD BEARING	2	6310	MAGNETO, OHC	12	SA630826	WASHER-TAB	6	J&J	OHC CYL ASSY W/NICKLE PLATING	1	501867	BEARING- BALL - RADIAL				1	HET55257	RING-INT RETAINING				1	HET55019	CLUTCH SPRING				1	CAM539800 M15				
2	SA643626-104	C/W PIN	10	SA642917-1	INTAKE HOSE																																																																																																																																																					
	SA643626-103	C/W PIN	1	SA641250	CRANK SEAL																																																																																																																																																					
16	SA629104	LOCK RING	1	24770	C/S PLUG																																																																																																																																																					
16	SA643629	RETAINING PLATE	4	SA638172	MAG DRIVE CUSHION																																																																																																																																																					
1	SA646588-A1	BEARING SET	1	SA537721	BEARING																																																																																																																																																					
6	656990	C/S GEAR SCREW	1	SA641388	BEARING																																																																																																																																																					
4	SA535666	SCREW	8	SA350998	C/SHAFT BLADE BUSHING																																																																																																																																																					
6	SA646277	LIFTER	16	SA639193	C/WEIGHT BUSHING																																																																																																																																																					
6	SA628488	LIFTER	4	SA643626-101	C/W PIN																																																																																																																																																					
3	MS35756-8	KEY WOODRUFF NUT	1	HET55015-4	RING-RETAINING-INT 522100																																																																																																																																																					
2	SA632443A-4	GASKET SET	12	MS90725-12	BOLT, HEX																																																																																																																																																					
1	SA646546-A1	PISTON PIN	12	SA652984	ROCKER ARM SHAFT																																																																																																																																																					
6	SA630046	OIL FILTER, SPIN-ON	12	SA652947	WASHER																																																																																																																																																					
1	AA48108-2	EXHAUST NUT	1	AA9144	PROP GOVERNOR GASKET																																																																																																																																																					
24	MS20500-42B	SPARE PLUG	1	HET55018	BEARING BALL																																																																																																																																																					
12	RHB32E	CONN ROD BUSHING	8	AS3578-016	SEAL-"O" RING																																																																																																																																																					
6	SA530658	CONN ROD BOLT	1	634150	SPRING OIL PRES REL																																																																																																																																																					
12	SA629340	CONN ROD NUT	1	EE6993	MAJOR O/H THRU BOLT-KIT																																																																																																																																																					
12	SA628109	COTTER PIN	24	SA639829	ROCKER ARM BUSHING																																																																																																																																																					
12	MS24685-229	CONN ROD BEARING	2	6310	MAGNETO, OHC																																																																																																																																																					
12	SA630826	WASHER-TAB	6	J&J	OHC CYL ASSY W/NICKLE PLATING																																																																																																																																																					
1	501867	BEARING- BALL - RADIAL																																																																																																																																																								
1	HET55257	RING-INT RETAINING																																																																																																																																																								
1	HET55019	CLUTCH SPRING																																																																																																																																																								
1	CAM539800 M15																																																																																																																																																									
				<p>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.</p> <p>Airworthiness Directives complied with during this overhaul are listed at the rear of this logbook. This engine is approved for return to normal service.</p> <p>Certified Engines Unltd * Pembroke Pines, Fl 33023 USA *CRS#KG4R309M Invoice/wo#75508/58937 *** 19 October 2022</p> <p>Authorized Signature  Frank Neves, Jr.</p>																																																																																																																																																						
				<p>SUB-TOTALS this page</p> <p>TOTALS-Carry forward to next page</p>																																																																																																																																																						

Page No. _____

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED – SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page

03 Mar 2023 TACH: 3420.3 TSOH: 0

Installed new overhauled engine. Added 12 quarts of Aeroshell 100 mineral oil. Checked timing. Ran engine and verified operation and no leaks. Performed compression check as follows: #1 77/80 #2 75/80 #3 76/80 #4 77/80 #5 77/80 #6 76/80

Airworthiness Directives checked and performed by Certified Engines Unlimited. All work was accomplished I.A.W Federal Aviation Regulations and manufacturer's maintenance instructions. I certify that this engine has been inspected in accordance with an annual inspection and was determined to be in airworthy condition

Thomas McElveen 2682072 IA

Thomas S McElveen



Top Flight Aviation
3050 Transatlantic Way
Johns Island SC 29455
(843) 408-9555

Make: Aero Commander
Model: 200D
Tail: N2943T
S/N: 346

Hours: TACH TIME: 3460.11

performed 100 HR inspection on powerplant. removed engine cowlings drained oil from engine drain. removed and inspected oil screen for signs of foreign material. no defects noted. installed oil screen with new crush gasket. serviced CY 4: 78/80 CYL 5: 78/80 CYL 6: 78/80. cleaned gapped and tested all spark plugs. no defects noted. installed and sparks plugs with new spark plug gaskets. inspected engine area for signs of leaks/damage no defects noted. inspected engine controls for proper operation. inspected engine components for proper installation/safety. ran engine up to operating temps. ground checks good leak check good. installed engine cowlings. All work done IAW aero commander shop manual and AC 43.13 apx D.

Signed: *Logan Tribodeau*

Name: Logan Tribodeau

Cert: 4334252

Date: 06/24/2024



GFTS-AM
151 Airpark Blvd.
Immokalee, FL 34142

Make: Continental
Model: IO-520-A
Tail: N2943T
S/N: 112209-70-A-R

Hours: TTE: 2289.93 Tach: 3465.93 TSMOH: 45.63

Performed Annual inspection in accordance with FAR 43, Appendix D, and with reference to Meyers 200 Annual Maintenance Checklist. The following maintenance was performed in conjunction with the inspection:

- Compressions checked as follows: #1 - 72/80, #2 - 70/80, #3 - 73/80, #4 - 67/80, #5 - 68/80, #6 - 75/80.
- Drained oil, cleaned and inspected oil suction screen.
- Serviced engine with 10qt Phillips XC20W-50, and 1pt Camguard.
- Repaired wiring to EGT probes and gauge.
- Cleaned, inspected, gapped, and rotated spark plugs.

Engine ran, no leaks noted.

AD's checked and in compliance through Biweekly 2025-13. See master list in logs.
I certify this ENGINE has been inspected in accordance with an ANNUAL inspection, and has been found to be in airworthy condition.

Signed: *James Menuez*

Name: James Menuez

Cert:

4093622 AP/IA

Date:

07/02/2025

SUB-TOTALS *See page*

TO PAGE *See page* forward to next page

