

ENGINE MAINTENANCE RECORDS

Log No. _

| Aircraft Registration No. 157025 |
|-----------------------------------|
| Engine Manufacturer Continental |
| ModelTST0-520- M |
| Serial No. <u>532085</u> |
| Date installed on aircraft |
| Time Between Overhauls (TBO) |
| If used on multi-engine aircraft: |
| □ Right □ Left |

| Page | No. | _ |
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DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK

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|---|---------|---------|----------|-----------|
| | | Total | Total | Tach or |
| | | Time | Time | Recording |
| 1 | Date | 1n | Since | Meter |
| | | Service | Overhaul | Time |
| | 1/27/12 | 1825.1 | 0 | |



CONTINENTAL TSIO-520-M Engine S/N 532085

Above referenced engine overhauled to new parts limits per FAR 43.2(a)(1)(2) to conform w/TCM SM X-30575A. Applicable AD's and Service Bulletins C/W at this time. All gears cleaned, polished when required, inspected, magnafluxed, and no cracks found. Finish and dimensional limits within RAM Gear Inspection Specification No. 1818, Rev. K dated 2-08-2010. Above referenced engine modified per STC SE 3630SW-D. Installed new Continental camshaft p/n 655384, s/n 94205. Installed lifters p/n 628488 int. p/n 646277 exh. AD 10-11-04 n/a to lifter p/n installed. AD 97-26-17 c/w per installation of new VAR crankshaft p/n 649134 s/n N10KA018 per TCM CSB96-8. Ultrasonic inspection per MSB96-10A due at overhaul or when crankshaft removed. AD 99-19-01 n/a per crankshaft date of manufacture I/A/W TCM MSB99-3C. AD 2000-23-21 N/A to crankshaft serial number/date of manufacture I/A/W TCM MSB00-5D. Engine assembled with new Continental heavy style crankcase P/N 656687, S/N R11DA169. Installed new ECI Titan Nickel cylinders. Cylinder hold-down nuts replaced and torqued per Overhaul Manual Supplement. Installed new RAM/FAA/PMA fuel nozzles p/n 2562-14C. TCM Service Bulletin SB06-1A N/A per installation of RAM fuel nozzles. Installed new oil cooler P/N 8000545, S/N 1366300. Engine accessories exchanged for overhauled or new units with exception of vacuum pump and prop governor which were not installed per this work order. New Slick pressurized magnetos p/n 6320 installed per STC SE4651SW-D and pressurized. Service Bulletin SB3-08A N/A to magneto serial numbers installed. AD 88-25-04 para (b) N/A to P/N 6320 but RAM recommends 100 hour or annual inspection of magnetos. MSB94-8D on magneto timing procedure c/w per timing to data plate TC degree requirements with TDC locator and protractor with pointer. Installed RAM/FAA/PMA rocker arms p/n 1842-3 and 1842-4. AD 98-01-08 N/A per installation of RAM/FAA/PMA rocker arms. AD 79-25-07 P/C/W per engine mount leg p/n 643935 installed. Category 1 thru 3 TCM Service Bulletin Compliance Listing in RAM Manual. Above referenced engine eligible for 1600 hr. TBO per TCM SIL98-9 Rev. A, Note 4. AD 96-12-22 N/A Cessna oil filter adapter not installed. Installed RAM/FAA/PMA rocker arm covers p/n 2766-1. Installed RAM-FAA-PMA rocker arm cover gaskets p/n 1387-1. Engine ground run on test stand per RAM specifications for 4 hours. Engine run-in with Phillips 20W-50 Type M mineral oil. See RAM Recommended Oil Grade Maintenance Tip MT-1 for recommended oils. Engine approved for return to service for the work performed. Engine preserved per Service Bulletin SIL99-1 temp. storage up to 90 days. Pertinent details on file under Project No. 6121.

RAM Aircraft, Limited Partnership, P.O. Box 5219, Waco, Texas 76708 CRS VA1R551K

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| | DATE 2012 | TOTAL TIME IN SERVICE | TOTAL TIME SINCE OVERHAUL | TACH OR RECORDING METER TIME | DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK |
| | Feb 20 | 1825.1 | 0 | 5259.1 | TOTALS brought forward from previous page |
| , | | 100 | _ | | Installed this enjul in N57025. |
| | | | | | Installed using new engile mount and |
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| | | | | | Phillips 2060. Derprised gard sun. |
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| 3/26/12 | 1825.1 | 0 | 5259.1 |



RAM Aircraft, Limited Partnership • Waco Regional Airport

CONTINENTAL TSIO-520-M Engine S/N 532085

The above referenced engine was disassembled due to sudden stoppage. The engine was cleaned, inspected and reassembled to service limits per TCM Overhaul Manual X-30575A-sandcast, SB96-11B prop strike and AC 43.13-1B, Chapter 8 Section 1, 8-2, Para B, C, D and E as required. Reused crankcase, crankshaft, camshaft, lifters, main and rod bearings. C/W MSB96-10A ultrasonic inspection. New bolts and nuts installed in rods. Reinstalled cylinder assemblies. Installed new vacuum pump and overhauled prop governor. Installed accessories in their respective positions with existing time in service with the exception of the alternator which was not installed per this work order. Installed new Slick magnetos p/n 6320, left s/n 12020547, right s/n 12020548. Cleaned and flushed lifters, starter adapter and oil pump. Serviced engine with 20W50 mineral oil and ran in test cell for one (1) hour. Engine is approved for return to service for work performed. Engine preserved per Service Bulletin SlL99-1 temp. storage up to ninety (90) days. Pertinent details on file under Project No. 6177.

Romie Mylka

ENGINE MODEL: TSIO-520-R ENGINE S/N: 269984-R REG. NO: 5702J WORK ORDER: 5841

TENNESSEE 23°

Tennessee Aircraft Services, Inc.

2313 Technology Center Drive Jackson, TN 38301 Phone: 731-424-7227 DATE: 11 April, 2012 A/C TSN: 10024 ENG TT: 2.5 TACH: 5261.6

Engine Entries

Installed repaired engine s/n 532085 received from RAM after prop strike inspection as per SB96-11B. Project work order No. 6177. Serviced engine with 12 quarts of Aeroshell 100 straight mineral oil. Performed ground run for leak and ops check. Performed engine fuel system setup per CMI SID 97-3E.

Work performed by David Carter, Doug Kail, and Robert Batterman.

DATE: 11 April, 2012

SIGNED: SULLINA SAULUNA Robert Batterman, IA: 1588427

Work Order: 5841

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| | ENGINE MODEL: TSIO-520-R | , | 1 ENNESSEE | ennessee Aircraft Service | es, Inc. | DATE: 11 April, 2012 A/C TSN: 10124 |
| | ENGINE S/N: 26998 REG, NO: 5702J | 94-R ↓∭ | | 13 Technology Center Drive ckson, TN 38301 | | ENG TT: 165.6 2. 7 TSMOH: 1645.2 |
| | WORK ORDER: 584 | 41 | Ph | none: 731-424-7227 | | TACH: 5361.6 |
| | Engine Entries | | | | | |
| | 6177. Serviced er | ngine with 12 | | d from RAM after prop strike ins hell 100 straight mineral oil. Perf I SID 97-3E. | | |
| | | | | | / > | |
| | DATE: 11 April. 2 | 012 | SIGNED: | Nost That | to- | Work Order: 5841 |
| | | | Robert Batterma | in, IA: 1588427 | Printed b | y EBis 3 (datcomedia.com) |
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| | N#. 5702 I | DATE. | A/0.C/0010 | BALLETT MICHE SE | ODEL | |
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| | S/N: 26998 4 532085 | FR IA | CH: 5271. | 2 SMOH: | | |
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| | ENGINE MODEL: | - | / Tei | nnessee Aircraft Service | s, Inc. | DATE: 23 May, 2012 |
| 1 | TSIO-520-M ENGINE S/N: 532085 | 200 | | 3 Technology Center Drive | | A/C TSN: 10037.5 ENG TT: 16 |
| | REG. NO: 5702J WORK ORDER: 5901 | | Jack | rson, TN 38301 ne: 731-424-7227 | | TSMOH: TACH: 5275.1 |
| | Engine Entries | | | | | (Non. 32.3.1 |
| | _ | hie cooler n/r | 8000545 c/o 13 | 366349 and 7th stud adapter p/n | 653649 | |
| | installed Sel Moedi | ole cooler p/i | 1 00000-10 3/11 10 | 100349 and 7th stud adapter pin | 032010. | |
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| | DATE: 23 May, 201: | 2 | SIGNED: | a DA SIDEN | 2) | Mark Order, 5001 |
| | DATE: 25 May, 201 | | Joe Norris, IA: 346 | 1967 A / O O TU | <u> </u> | Work Order: 5901 |
| | | | JOB NOTTIS, IA: 346 | 00202 | Printed t | by EBis 3 (datcomedia.com) |
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| | N#- 5 | 702.I D | ATE: 7/10 |)/2012 MAKE: TC | M MODEL. T | SIO 500 N5 |
| | S/N - 2 | 260001 | P TACU. | 5315.1 SMOH: | WI MODEL: I | 51U-52U-M |
| | | 3 2085 | K IACH | 3313.1 SMOH: | | |
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| | C/W AD | 71-09-07R1 | NSTALLED N . EFF: 11 <i>126/8</i> 4 | EW OIL FILTER, P/N: CH | 8108-1. SERVICED W | TTH 11qts. AEROSHELL W100. W AD96-12-22, EFF: 7/31/96, |
| | PARA (3 |)(2), DUE | GAIN @ OIL | PILIEK KÆR. CLEANED | ENCINE DEDECTION | TO CAM AND MORE AT AND |
| | LEAKS | NOTED | | Υ- | END. | GAD, OIB NORWAL, NO |
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| 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 |
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| | N#: 57 | 02J DAT | E: 11/7/20 | 12 MAKE: TCM MODEL: TSIO-520-M |
| | S/N: 2 (| 6 9984- R 7 | ГАСН: 54 | 49.4 SMOH: |
| | 5 3 | 2085 | | |
| | (a)(i)(ii)(ii) | i), DUE AGAI | 1/ 90 , PAKA (3) N @ 5499.4 (T). | OIL FILTER, P/N: CH48108-1. SERVICED WITH 11qts. AEROSHELL W100. C/(2), DUE AGAIN @ OIL FILTER R&R. C/W AD71-09-07R1, EFF: 11/26/86, PARA C/W AD76-07-12R1, EFF: 8/30/77, PARA (1)(2)(b)(c), DUE AGAIN @ 5549.4(T). GND RUN, OPS NORMAL, NO LEAKS NOTED.———END————END———————————————————————— |
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| | RANDY G | GAUT | | Work Performed |
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| Γ • | N#: 5702J S/N+ 53208 | DATE: 1. | /25/2013] - 5474 4 S | MAKE: TCM MODEL: TSIO-520-M MOH: 215.3 ETT: 1825.1 |
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| G | APPED, TEST | FIRED SPAR | K PI LICS PE | E MANUAL GUIDELINES. DRAINED OIL & INSTALLED NEW OIL FILTER, P/N: SHELL W100. CHECKED MAGNETO TIMING & SPARK PLUG LEADS. CLEANEI RFORMED COMPRESSIONCHECK: 1) 75/80 2) 74/80 3) 77/80 4) 76/80 5) 73/80 6) |
| 11 | 1/26/1986, PAR | A (a)(i)(ii)(iii). | DHEAGAIN | ANOISE INSTECTED HYDUCTION & EXHAUST SYSTEMS. C/W AD71-09-07R1, EFI @ 5524.4(T). C/W AD RESEARCH IAW ATP NAVIGATOR CD-ROM REVISION NGINE, PERFORMED GND RUN, OPS NORMAL, NO LEAKS NOTED. |
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| f | | WX TERRO | WILD OND N | RUN, OPS NORMAL, NO LEAKS NOTED.———————————————————————————————————— |
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| | | | | TOTALS brought forward from p | revious page |
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| | GN | D RUN, OPS I | NORMAL, NO I | LEAKS NOTED. | 6.0(T). CLEANED ENGINE, PERFORMED WORTHY With Respect To |
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| | S/N Dra C/W | N: 532085 AINED OIL & 'AD71-09-07R | TACH: INSTALLED NO. 11, EFF: 11/26/86 | L PAKAISHIWIIII. DUK ACAIN @ 56 | RVICED WITH 11qts. AEROSHELL W100. Dbrs. CLEANED ENGINE, PERFORMED GND |
| | RUN | , OPS NORM | IAL, NO LEAKS | S NOTED. ———————————————————————————————————— | Is Airworthy With Respect To |
| | K | 2 Just | ID 274 | 5081 | Work Performed |
| | ENGINE MODEL TS10-520-M ENGINE S/N: 532 | 2085 | AIRCKAFT 2313 | 1 of 1 nnessee Aircraft Services, Inc. 3 Technology Center Drive | DATE: 27 November, 2013 A/C TSN: 10414.2 ENG TT: 392.7 |
| | REG. NO: 5702J WORK ORDER: (| | Jack | kson, TN 38301 ne: 731-424-7227 | TSMOH: TACH: 5651.8 |
| | Engine Entri | | | | |
| | Removed left service. Timed Compression Accomplished Drained oil ar filter p/n AA481 Inspected threexisting control Existing control | t & right Magneton to 22 degrees to 22 degrees is: (master orificon di a bore-scope inditook sample inditook sample inditook sample inditook sample inditook sample inditook sample service inditook indi | cos, reset drive gea ber engine plate an the 48/80) 1-#74 2- inspection of the various for analysis. Remo the ded engine with 11- control levers in accord | FAR 43 appendix D. Irs to change angle of magnetos for correct of TCM MSB94-8D. #73 3-#74 4-#71 5-#63 6-#74 alves & cylinder barrels & piston tops. All approved old filter and opened for inspection with quarts of Phillips 20W50 XC oil. Engine grocordance with TCM- CSB 08-3. Found lever of for continued service per the bulletin. eaned, and re-installed with new gasket p/n 2E. | pear normal. no discrepancies noted. Installed new und check run satisfactory. s are not stainless steel. Checked |
| | III PROTIECT LICAN | led by boug Kai | | | |
| | Work perform | | ded in accordance with | th an Annual Inspection and found airworthy. | |
| | Work perform | ift has been inspec | sted in accordance with SIGNED: | th an Annual Inspection and found airworthy. | Work Order: 6120 |
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| DATE | TOTAL TIME IN SERVICE | TOTAL TIME SINCE OVERHAUL | TACH OR RECORDING METER TIME | DESCRIPTION OF WORK PERFORMED SIGNATURE & CERTIFICATE NO. OF PERSON PERFO | D RMING WORK |
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| | | | | TOTALS brought forward from previous page | |
| | | | | MAKE: TCM MODEL: TSIO-520-M SMOH: 499.9 ETT: 2109.7 | |
| | AD71-09-0 | 97 R 1, EFF: 11/ | ALLED NEW O 26/86, PARA (a) AKS NOTED | IL FILTER, P/N: CH48108-1. SERVICED WITH 11qts. AEROSHI (i)(ii)(iii), DUE AGAIN @ 5751.0(T). CLEANED ENGINE, PERFO | DRMED GND. |
| _ <i>\bar{b}</i> | ennio, | L forde | ARS NOTED. | Is Airworthy With Respect To Work Performed | |
| | AP274540 | 31A [| I | | |
| - <i>B</i> | Avia Main | tion atenance | 552 Perimeter Greenville, SC 864.299.5084 | N5702J Cessna TP206D S/N: P20 | 06-0602 |
| Cessna | a 206 and T | | ps checked s | iced all seals, reinstalled in removed position, and ops chatisfactory, aircraft is approved for return to service. | |
| | | | | | lof ! |
| 1 | | | | RS ZY4R717M DSA, ALABAMA 35401 | |
| | | | | 6D S/N P206-0602 N5702J 2014 TACH TIME: 5723.7 | |
| | system and broken nut 636035-1 ft normal with | found broken U on fuel line con uel line. Satisfad i no defects not | Ipper Deck Press necting fuel flow ctory leak checks ed. | cous engine EGT and Fuel Flow indications. Troubleshot ure Line. Fabricated new line IAW AC43-13.1b. Found divider to #3 cylinder. Removed line and replaced with new performed. Aircraft was test flown, all systems performed R ARE ON FILE AT THIS REPAIR STATION UNDER W/O 2154T. | |
| | Steven Sr | nith | P 3721189 | | |
| | A&P 372 | 1109 | | | |
| | A&P 3/2 | 1109 | | | |
| | A&P 372 | 1109 | | | |
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| | A&P 372 | 1109 | | | |

Page No. _ TOTAL TIME SINCE RECORDING METER TIME DESCRIPTION OF WORK PERFORMED-DATE SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK SERVICE TIME TOTALS brought forward from previous page N#: 5702J DATE: 3/20/2014 MAKE: TCM MODEL: TSIO-520-M S/N: 532085 TACH: 5751.9 SMOH: 550.8 ETT: 2160.6 DRAINED OIL & INSTALLED NEW OIL FILTER, P/N: CH48108-1. SERVICED WITH 11qts. AEROSHELL W100. C/ WAD71-09-07R1, EFF: 11/26/86, PARA (a)(i)(ii)(ii)(iii)., DUE AGAIN @ 5801.9(T).--Is Airworthy With Respect To Bennis X facoles Work Performed N#: 5702J DATE: 4/3/2014 MAKE: TCM MODEL: TSIO-520-M S/N: 532085 TACH: 5802.0 SMOH: 600.9 ETT: 2210.7 DRAINED OIL & INSTALLED NEW OIL FILTER, P/N: CH48108-1. SERVICED WITH 11qts. AEROSHELL W100. C/ W AD71-09-07R1, EFF: 11/26/86, PARA (a)(i)(ii)(iii), DUE AGAIN @ 5852.0(T). CLEANED ENGINE, PERFORMED GND RUN, OPS NORMAL, NO LEAKS NOTED. --Is Airworthy With Respect To Work Performed SUB-TOTALS this page TOTALS-Carry forward to next page



CESSNA TP206A THRU TP206E
CESSNA TU206A THRU TU206F
SUPPLEMENTAL FLIGHT MANUAL

.____ GENERAL

ENGINE

Continental TSIO-520-M

PROPELLER

McCauley D3A34C402/90DFA-10

I. LIMITATIONS

ENGINE LIMITS

Maximum continuous: 275 HP - 2600 RPM - 34.0" Hg. S.L. 260 HP - 2600 RPM - 34.0" Hg. 18,000 ft. 160 HP - 2600 RPM - 22.0" Hg. 30,000 ft. Straight Line Variation between points given.

Take-off: (Five (5) minutes) 310 HP - 2700 RPM - 36.5" Hg. S.L. 310 HP - 2700 RPM - 36.5" Hg. 17,000 ft.

2. PROPELLER LIMITS

Diameter: Maximum 80.0 inches Minimum 78.5 inches

Pitch Settings: Low 12.4 $^{\circ}$ + .5 $^{\circ}$ High 28.5 $^{\circ}$ + .5 $^{\circ}$

Measured at 30 inch station

3. ENGINE INSTRUMENT MARKINGS

Fuel Flow (if installed):
Redline: 4 psi: 0 (

Redline: 4 psi; Ó GPH or 0 PPH Green Arc: 6-21 GPH or 36-126 PPH White Arc: 21-27 GPH or 126-162 PPH Redline: 19.5 psi; 31 GPH or 186 PPH

Manifold Pressure:

Green Arc: 15.0 - 34.0 in. Hg.
Yellow Arc: 34.0 - 36.5 in. Hg.
Redline: 36.5 in. Hg.

F.A.A. Approved

S.T.C. No. SA2782SW

Date: ___May 1, 1981

Page 2 of 3 pages



F.A.A. APPROVED

AIRPLANE SUPPLEMENTAL FLIGHT MANUAL

FOR

CESSNA MODELS TP206A, TP206B, TP206C, TP206D,

TP206E, TU206A, TU206B, TU206C,

TU206D, TU206E and TU206F

WITH

CONTINENTAL TSIO-520-M ENGINE INSTALLED

MODEL NUMBER TP206D

REGISTRATION NUMBER N 5702J

SERIAL NUMBER P206-0602

This Supplemental Flight Manual is F.A.A. approved material and must be in the airplane for all operations when the aircraft has been modified by the installation of Continental TSIO-520-M engines in accordance with STC Number SA2782SW. The information contained herein supplements or supercedes the information in the form of placards, markings, and approved manual material. Flight Manual consult the basic airplane placards, markings, and approved manual material.

F.A.A. Approved Que

Don P. Watson, Chief Engineering & Manufacturing Branch FEDERAL AVIATION ADMINISTRATION Southwest Region Fort Worth, Texas 76101

Date: May 1, 1981

S.T.C. No. SA2782SW

Page 1 of 3 pages



CESSNA TP206A THRU TP206E CESSNA TU206A THRU TU206F

SUPPLEMENTAL FLIGHT MANUAL

ENGINE INSTRUMENT MARKINGS (Continued) Tachometer:

2150-2600 RPM Green Arc: 2600-2700 RPM Yellow Arc: Yellow Arc:

M.P. LIMITATIONS

Redline:

1850-2150 RPM 2700 RPM

REQUI RED PLACARD

On instrument

panel in plain

view near manifold

pressure instrument

Max. Alt. x 1000 M.P. 18.0 34.0 32.0 20.0 22.0 24.0 26.0 28.0 30.0 30.0 28.0 26.0 24.0

Or equivalent Cessna placard as supplied by RAM

22.0

On instrument panel in plain view near tachometer and M.P. gage

AVOID CONTINUOUS OPERATION BETWEEN 1850 and 2150 RPM ABOVE 24 IN. M.P.

III. EMERGENCY PROCEDURES

No Change

NORMAL PROCEDURES IV.

No Change

PERFORMANCE

The performance of this airplane equipped with a Continental TSIO-520-M engine is equal to or better than the original published performance.

F.A.A. Approved

Date: May 1, 1981

S.T.C. No. SA2782SW

Page 3 of 3 pages