

N5288J

1976 Cessna 421C

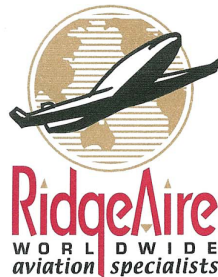
RH Engine

Logbook

SMOH | 292327-R

2006 - 2024

MSN: 421C-0158



Prepared by the worldwide aviation specialists at RidgeAire, Inc.



ENGINE MAINTENANCE RECORDS

Aircraft Registration N5288J
Engine Position Right
Engine Serial No. 292327-R



ENGINE MAINTENANCE RECORDS

Log No. _____

Aircraft Registration No. N5288J

Engine Manufacturer TCM

Model GTS10-520-L

Serial No. 292327-R

Date installed on aircraft _____

Time Between Overhauls (TBO) 1600 Hours

If used on multi-engine aircraft:

Right Left

Waco Regional Airport • P.O. Box 5219 • Waco, Texas 76708

254/752-8381

FAX 254-752-3307

1-800-445-9713

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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
				TOTALS brought forward from previous page



RAM Aircraft, Limited Partnership • Waco Regional Airport

TCM GTSIO-520-L Right Engine S/N 292327-R

Engine Previous Total: 1840.5
 Since Major Overhaul: 0.0
 Date: 08-11-06

Above referenced engine overhauled to new parts limits per FAR 43.2 (a)(1)(2) to conform w/TCM SM X30045A. 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. F dated 7/6/05. Above referenced engine modified per STC SE8338SW. Installed new camshaft p/n 653056, s/n Z06AA229. Installed overhauled crankshaft p/n 652832M010, s/n B512. C/W ultrasonic inspection c/w per MSB96-10 and due at next overhaul or when removed. TCM GTSIO-520 series engine crankshaft counterweights, p/n 652833-OH are repaired in accordance with FAA approved procedures per RAM Drawing 2618, Rev. B dated 11-15-05. Instructions for Continued Airworthiness: Remove p/n 652833-OH counterweights at next engine overhaul and replace with new per TCM SB00-3A or later FAA approved revision, except if repaired by RAM Aircraft, Limited Partnership per latest FAA approved revision of RAM Drawing 2618. Contact RAM Aircraft, L.P. at 7505 Karl May Drive, Waco, TX 76708 or (254) 752-8381 for replacement parts or service difficulties. **AD 99-19-01** n/a per crankshaft date of manufacture I/A/W TCM MSB99-6A. Engine assembled with overhauled TCM heavy style crankcase p/n 654119-12, s/n L029901R. Installed new TCM nicked cylinders. Cylinder hold-down nuts replaced and torqued per Overhaul Manual Supplement. Installed new RAM/FAA/PMA fuel nozzles p/n 2563-19A. TCM Service Bulletin SB06-1A n/a per installation of RAM fuel nozzles. Installed new RAM/FAA/PMA oil cooler p/n 2601-1, s/n 1751116. **AD 86-13-04 R3** and **AD 91-10-02** (MSB93-12) n/a per cylinders installed. Engine accessories exchanged for overhauled or new units with exception of tach generator, vacuum pump, prop governor and hydraulic pump which were not installed per this work order. MSB94-8A on magneto timing procedure c/w per timing to data plate TC degree requirements with TDC locator and protractor with pointer. Engine modified to GTSIO-520-L per Continental Service Bulletin M-75-6, Rev. 1. Installed rocker arms p/n 1654-1 and -2. Cadmium plating of engine hardware and associated lines and fittings per QQ-P-416C Class 2, Type II. C/W **AD 79-05-09** per installation of new current design oil pressure plunger assy. Starter adapter shaftgear and crankshaft gear inspection, **AD 2005-20-04** c/w per TCM Service Bulletin MSB94-4G per installation of Service Kit EQ6642 with bushing p/n 654472. Category 1 thru 3 TCM Service Bulletin Compliance Listing in RAM Manual. Relocated turbo oil supply line per RAM Dwg. No. 1224, Rev. H dated 11-18-03 per STC SE8338SW. **AD 87-04-05** n/a per fuel pump model. Above reference engine eligible for 1600 hr. TBO per TCM SIL98-9, Rev. A. CSB02-8 n/a per capacitor with red insulator installed. C/W TCM CSB04-5A per capacitor ground stud torque check. **AD 82-13-01** is n/a per Kelly Aerospace overhauled magnetos installed. Unpainted aluminum alloy engine parts were coated per RAM Specification No. 1142. Installed RAM/FAA/PMA spring loaded induction clamps p/n 1170-1. Installed RAM-FAA-PMA rocker box cover gaskets p/n 1366-1. Engine ground run on test stand per RAM Specifications for four (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 ninety (90) days. Pertinent details on file under Project No. 2693/31746.

RAM Aircraft, Limited Partnership, P.O. Box 5249, Waco, Texas 76708 CRS VA1R551K

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N5288J
S/N: 292327-R
MODEL: GTSIO-520-L
HOBBBS TIME: 1429.1



DATE: 11-07-06
W.O. #: 15432
TTSMOH: 0.00

RIGHT ENGINE LOG

2980 AIRWAY AV., COSTA MESA, CA 92626
TEL: 714-433-2275

FAA APPROVED REPAIR STATION # JVYR016L

THE AIRCRAFT AND / OR COMPONENT IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT FEDERAL AIR REGULATIONS AND WAS FOUND AIRWORTHY FOR RETURN TO SERVICE. PERTINENT DETAILS OF THE REPAIR / REPLACEMENT ARE ON FILE AT THIS AGENCY.

SIGNED: *Jamorn*

C/W an ANNUAL INSPECTION, serviced with 12 quarts of Mineral Oil & CH48111 filter.
Installed O/H engine as per Continental service guide. Set fuel as per SID 57-3, Replaced all Hoses with new.
C/W with all AD's Throughout 2006-22 AD Compliance Record.

N5288J
S/N: 292327-R
MODEL: GTSIO-520-L
HOBBBS TIME: 1430.0



DATE: 11-27-06
W.O. #: 15629
TTSMOH: 0.00
0.9
92K

RIGHT ENGINE LOG

2980 AIRWAY AV., COSTA MESA, CA 92626
TEL: 714-433-2275

FAA APPROVED REPAIR STATION # JVYR016L

THE AIRCRAFT AND / OR COMPONENT IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT FEDERAL AIR REGULATIONS AND WAS FOUND AIRWORTHY FOR RETURN TO SERVICE. PERTINENT DETAILS OF THE REPAIR / REPLACEMENT ARE ON FILE AT THIS AGENCY.

SIGNED: *Jamorn*

R&R Waste Gate Following O/H by Main Turbo under W.O.# 35485.

N5288J
S/N: 292327-R
MODEL: GTSIO-520-L
HOBBBS TIME: 1442.4



DATE: 01-19-07
W.O. #: 15768
TTSMOH: 13.3

RIGHT ENGINE LOG

2980 AIRWAY AV., COSTA MESA, CA 92626
TEL: 714-433-2275

FAA APPROVED REPAIR STATION # JVYR016L

THE AIRCRAFT AND / OR COMPONENT IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT FEDERAL AIR REGULATIONS AND WAS FOUND AIRWORTHY FOR RETURN TO SERVICE. PERTINENT DETAILS OF THE REPAIR / REPLACEMENT ARE ON FILE AT THIS AGENCY.

SIGNED: *Jamorn*

SET UP FUEL ON ENGINE AS PER SID 97-3.

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N5288J
S/N: 292327-R
MODEL: GTSIO-520-L
HOBBS TIME: 1486.7



DATE: 08-27-07
W.O. #: 16339
TTSMOH: 57.6

RIGHT ENGINE LOG
2980 AIRWAY AV., COSTA MESA, CA 92626
TEL: 714-433-2275
FAA APPROVED REPAIR STATION # JVYR016L

THE AIRCRAFT AND / OR COMPONENT IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT FEDERAL AIR REGULATIONS AND WAS FOUND AIRWORTHY FOR RETURN TO SERVICE. PERTINENT DETAILS OF THE REPAIR / REPLACEMENT ARE ON FILE AT THIS AGENCY.

SIGNED: _____

SERVICED WITH 15 QTS OF A/S 15W50, CH48111-1 OIL FILTERS, AND AN900-10 CRUSH WASHERS. AOA TAKEN. ENGINE WASHED, RUN UP & INSPECTED. OPERATIONAL CHECKED SATISFACTORY.

N5288J
S/N: 292327-R
MODEL: GTSIO-520-L
HOBBS TIME: 1501.0



DATE: 12-03-07
W.O. #: 16434
TTSMOH: 71.9

RIGHT ENGINE LOG
2980 AIRWAY AV., COSTA MESA, CA 92626
TEL: 714-433-2275
FAA APPROVED REPAIR STATION # JVYR016L

THE AIRCRAFT AND / OR COMPONENT IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT FEDERAL AIR REGULATIONS AND WAS FOUND AIRWORTHY FOR RETURN TO SERVICE. PERTINENT DETAILS OF THE REPAIR / REPLACEMENT ARE ON FILE AT THIS AGENCY.

SIGNED: _____

ANNUAL INSPECTION PERFORMED C/W IAW CESSNA SERVICE AND MAINTENANCE MANUAL.

COMPRESSION CHECKED. 1. 75/80 2. 75/80 3. 75/80 4. 73/80 5. 75/80 6. 70/80

SERVICED WITH 13 QTS OF A/S 15W50 AND CH48111-1 OIL FILTER. AOA TAKEN.

ENGINE WASHED, RUN UP & INSPECTED. OPERATIONAL CHECKED SATISFACTORY.

R&R SPARK PLUG GASKETS WITH NEW. P/N M674.

C/W AD2007-05-15 IAW MSB94-46 PART 2. FOUND WITHIN LIMITS. INSTALLED NEW GASKET. P/N 653749.

C/W AD200-01-16 ON EXHAUST.

INSTALLED NEW HYDRAULIC PUMP GASKET. P/N 5154056-2.

C/W ALL AD'S THROUGHOUT THIS DATE.

N5288J
S/N: 292327-R
MODEL: GTSIO-520-L
HOBBS TIME: 1574.3



DATE: 10-01-08
W.O. #: 17086
TTSMOH: 145.2

RIGHT ENGINE LOG
2980 AIRWAY AV., COSTA MESA, CA 92626
TEL: 714-433-2275
FAA APPROVED REPAIR STATION # JVYR016L

THE AIRCRAFT AND / OR COMPONENT IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT FEDERAL AIR REGULATIONS AND WAS FOUND AIRWORTHY FOR RETURN TO SERVICE. PERTINENT DETAILS OF THE REPAIR / REPLACEMENT ARE ON FILE AT THIS AGENCY.

SIGNED: _____

R&R OIL PUMP GEAR SHAFT WITH NEW ON RIGHT ENGINE. P/N 636792.

INSTALLED NEW SEAL ON RIGHT ENGINE WASTEGATE. P/N MS28778-6. SERVICED WITH 6 QTS OF A/S 100W.

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N5288J
 S/N: 292327-R
 MODEL: GTSIO-520-L
 HOBBS TIME: 1580.6



DATE: 04-25-09
 W.O. #: 17438
 TTSMOH: 151.5

DATE

RIGHT ENGINE LOG
 2980 AIRWAY AV., COSTA MESA, CA 92626
 TEL: 714-433-2275
 FAA APPROVED REPAIR STATION # JVYR016L

THE AIRCRAFT AND / OR COMPONENT IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT FEDERAL AIR REGULATIONS AND WAS FOUND AIRWORTHY FOR RETURN TO SERVICE. PERTINENT DETAILS OF THE REPAIR / REPLACEMENT ARE ON FILE AT THIS AGENCY.

SIGNED: *[Signature]*

LEFT ENG

C/W ANNUAL INSPECTION IAW CESSNA SERVICE AND MAINTENANCE MANUAL.
 COMPRESSION CHECKED. RIGHT 1. 80/80 2. 75/80 3. 60/80 4. 70/80 5. 58/80 6. 70/80
 SERVICED WITH 13 QTS OF A/S 15W50 AND CH48111-1 OIL FILTER. AOA TAKEN.
 ENGINE WASHED, RUN UP & INSPECTED. OPERATIONAL CHECKED SATISFACTORY.
 REMOVED AND REINSTALLED MAGNETOS AFTER 500 HR INSPECTION PERFORMED BY AERO ACCESSORIES
 UNDER INV # 29966-7. P/NS BL-349220-4 & BL-349260-7; S/NS F02DA375R & F02DA089R
 R&R INDUCTION FILTERS W/NEW. P/N P10-8421.
 REMOVED AND REINSTALLED SPARK PLUGS AFTER CLEANING, INSPECTION, ROTATED, AND R&R SPARK
 GASKETS W/NEW. P/N M-674.
 REMOVED AND REINSTALLED WASTEGATE AFTER OVERHAULED BY MAIN TURBO UNDER INV # 32224. S/N
 ITER0102, C-P/N C165006-0113, & AID P/N 481064-1. R&R WASTEGATE GASKETS W/NEW. P/N 652456
 AD2007-05-15 STARTER ADAPTER DUE (AT HOBBS TIME) 1901.0
 AD 2000-01-16 EXHAUST INSPECTION DUE AT HOBBS TIME 1680.6
 C/W ALL ADs THROUGHOUT THIS DATE.

N5288J
 S/N: 608108
 MODEL: GTSIO-520-L
 HOBBS TIME: 1613.3



DATE: 08-06-10
 W.O. #: 18298
 TTSMOH: 184.2

RIGHT ENGINE LOG
 2980 AIRWAY AV., COSTA MESA, CA 92626
 TEL: 714-433-2275
 FAA APPROVED REPAIR STATION # JVYR016L

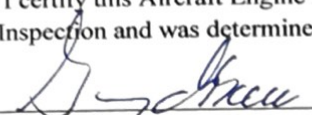
THE AIRCRAFT AND / OR COMPONENT IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT FEDERAL AIR REGULATIONS AND WAS FOUND AIRWORTHY FOR RETURN TO SERVICE. PERTINENT DETAILS OF THE REPAIR / REPLACEMENT ARE ON FILE AT THIS AGENCY.

SIGNED: *[Signature]*

C/W ANNUAL INSPECTION IAW CESSNA SERVICE AND MAINTENANCE MANUAL.
 COMPRESSION CHECKED. RIGHT 1. 72/80, 2. 78/80, 3. 70/80, 4. 65/80, 5. 78/80, 6. 75/80
 SERVICED WITH 13 QTS OF A/S 15W50 AND CH48111-1 OIL FILTER. AOA TAKEN. ENGINE WASHED, RUN UP AND
 INSPECTED. OPERATIONAL CHECK SATISFACTORY.
 INDUCTION AIR FILTER CLEANED AND INSPECTED.
 C/W AD2000-01-16 EXHAUST INSPECTION IAW CESSNA SB MEB99-6-9-12.
 R&R SPARK PLUGS W/NEW. P/N RHB32E.
 R&R RH ENGINE TURBOCHARGER GASKET W/NEW. P/N 653981.
 C/W ALL ADs THROUGHOUT THIS DATE.

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AA Aircraft Maintenance 7070 Summit Valley Rd. Hesperia, Ca. 92345 (760) 947-0807 DATE 09-08-11 N 5288J S/N 608108 RT. ENGINE GTSIO-520-L Tach Hobbs 1647.7 T/T SMOH 218.6				
Drained and replenished oil and replaced filter CH48111-1, replaced air filter, ground run post svc, checks good. I certify this Aircraft Engine has been inspected in Accordance With Annual/100 hr Inspection and was determined to be in an Airworthy condition.				
 AP5645706391A Garry Abbott				
R/R oil filter X Check Exhaust system X Oil service X Clean/ Gap plugs X Check fuel X Lube X Air filter X A/Ds checked X				
1) 70/80 2) 71/80 3) 78/80 4) 70/80 5) 69/80 6) 72/80				

ENGINE MODEL: GTSIO-520-L
 ENGINE S/N (R): 292327-R
 REG. NO N5288J
 WORK ORDER: 20121008-1M



Hangar One Avionics

Repair Station No. 1HGR058B
 2026 Palomar Airport Road
 Carlsbad, CA 92011
 Phone: 760-929-2270

DATE: 4/1/2013
 A/C TSN: 5820.7
 ENG TT (R):
 TSMOH (R): 294.0
 HOBBS: 1723.3

Right Engine Entries

Completed Annual Inspection IAW the Cessna Inspection Check list as applicable and FAR 43 Appendix "D"
 Executed FAA form 337 due to a lack of documentation for the installation of a Shadin Fuel Flow transducer in accordance with STC# SE612GL.
 Executed FAA form 337 due to a lack of documentation for the installation of RAM modified Induction Clamps in accordance with STC# SE3767SW-D.
 CW TCM SB03-3, Borescope revealed normal indications for in-service cylinders. Performed a differential compression check as follows: 1) 70/80 2)74/80 3)72/80 4)74/80 5) 74/80 6)72/80. Note: TCM Calibrated orifice tool reading=42/80.
 Drained oil and removed oil filter, cut open filter an found no contaminants, installed new filter P/N CH48111-1, new MS35769-11 oil drain plug gasket and serviced engine with 13qts of Aeroshell oil AS15W50.
 Cleaned fuel injector nozzles in ultrasonic cleaner, reinstalled nozzles with 12ea new P/N 630979-9 o-ring seals, 6ea new P/N 633958-3 packings and 6ea new P/N 640612 seals.
 Cleaned, inspected, gapped, rotated and reinstalled spark plugs.
 Removed, inspected, cleaned and reinstalled fuel metering screen with new P/N 649983 gasket.
 Removed intercooler to gain access to magnetos for timing. Reset LH and RH magneto timing per engine data plate spark advance. Reinstalled intercooler with new seal P/N MS9021-252.
 Engine fuel system set up per TCM SID97-3E. Operational and leak check satisfactory.
 Annual / I certify that this ENGINE has been inspected in accordance with an Annual Inspection and was determined to be in airworthy condition --end--
 This aircraft, airframe, or appliance identified above has been repaired and/or inspected in accordance with current Regulations of the Federal Aviation Administration and Manufacturer data and is approved for return to service.

DATE: 4/1/2013

SIGNED:

Mike Clingerman
 Certified Repair Station No. 1HGR058B

Work Order: 20121008-1M

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N5288J	11/09/13	Hobbs-1753.4		Right Engine Oil and filter changed with Amshell 15W50+CH48111-1 Run and checked for proper operation— Cpt. Lewis AP 2606564

ENGINE MODEL: GTSIO-520-L
ENGINE S/N (R): 292327-R
REG NO N5288J
WORK ORDER 20140505-2M



Hangar One Avionics
Repair Station No. 1HGR058B
2026 Palomar Airport Road
Carlsbad, CA 92011
Phone 760-929-2270

DATE: 6/18/2014
A/C TSN: 5888.7
ENG TT (R):
TSMOH (R): 362
HOBBS: 1791.3

Right Engine Entries

Completed Annual Inspection IAW the Cessna Inspection Check list as applicable and FAR 43 Appendix "D"

CW TCM SB03-3, Borescope revealed normal indications for in-service cylinders. Performed a differential compression check as follows: 1) 75/80 2) 73/80 3) 71/80 4) 77/80 5) 74/80 6) 72/80. Note: TCM Calibrated orifice tool reading=43/80.

Drained oil and removed oil filter, cut open filter and found no contaminants, installed new filter P/N CH48111-1, new MS35769-11 oil drain plug gasket and serviced engine with 13qts of Aeroshell oil AS100WPlus.

Gapped and installed 12 new P/N RHB32E spark plugs

Removed, inspected, cleaned and reinstalled fuel metering screen with new P/N 649983 gasket.

Cleaned fuel injector nozzles in ultrasonic cleaner, reinstalled nozzles with 12ea new P/N SA630979-9 o-ring seals, 6ea new P/N SA633958-3 packings and 6ea new P/N SA640612 seals. Removed worn injector sleeve assemblies and installed new 6ea P/N 640501 Sleeve Assemblies.

Ground run, operational, leak and FOD checks satisfactory.

Annual / I certify that this ENGINE has been inspected in accordance with an Annual Inspection and was determined to be in airworthy condition --end--

This aircraft, airframe, or appliance identified above has been repaired and/or inspected in accordance with current Regulations of the Federal Aviation Administration and Manufacturer data and is approved for return to service.

DATE: 6/18/2014

SIGNED:

Mike Clingerman
Certified Repair Station No. 1HGR058B

Work Order: 20140505-2M

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Chino Aviation Inc

7000 Merrill Ave. Hangar A-340 Chino CA 91710

N5288J Aircraft hobbs: 1805 05/17/2015 Right Engine TSO: 375.7

Inspected engine, inspected oil filter, found no metal, engine run satisfactory, compression checked: #1 74/80, #2 74/80, #3 76/80, #4 76/80, #5 75/80, #6 78/80,

Inspected and cleaned all sparkplugs, replaced filter with 48109-2 and serviced engine with Aeroshell 100w Plus, Engine ground run, no leaks found at this time. //

I certify that this Engine has been inspected In accordance with an Annual Inspection and found Airworthy at this time.


Agustin Cendejas AP2606564IA 

Chino Aviation Inc.

7000 Merrill Ave. #33 Hangar A-340 Chino CA 91710

N5288J Hobbs:1855.1 02/09/2016 Right Engine

Oil and filter changed both engines, serviced with Aeroshell 100w Plus oil

Agustin Cendejas AP2606564 

Chino Aviation Inc


7000 Merrill Ave. Hangar A-340 Chino CA 91710

N5288J Aircraft hobbs: 1871.8 06/10/2016 Right Engine TSO: 442.5

Inspected engine, inspected oil filter, found no metal, engine run satisfactory, compression checked: #1 72/80, #2 77/80, #3 74/80, #4 74/80, #5 75/80, #6 72/80,

Inspected and cleaned all sparkplugs, replaced filter with 48109-2 and serviced engine with Aeroshell 100w Plus, replaced No 5 cylinder induction pipe P.N. 641520, Engine ground run, no leaks found at this time.

I certify that this Engine has been inspected In accordance with an Annual Inspection and found Airworthy at this time.

Agustin Cendejas AP2606564IA 

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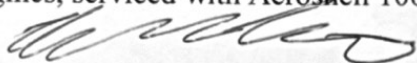
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TOTALS brought forward from previous page				

Chino Aviation Inc.

7000 Merrill Ave. #33 Hangar A-340 Chino CA 91710

N5288J Hobbs:1878.6 12/14/2016 Right Engine

Oil and filter changed both engines, serviced with Aeroshell 100w Plus oil

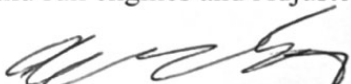
Agustin Cendejas AP2606564 *Chino Aviation Inc.*

7000 Merrill Ave. #33 Hangar A-340 Chino CA 91710

N5288J Hobbs:1900.0 02/13/2017 Right Engine

Washed engine compartment, found oil leak out of oil cooler, tightened fittings and pressure plug, cleaned oil and dirt built up on propeller de ice brushes, serviced hydraulic reservoir for Air conditioning and run engines and Adjusted Idle RPM.

No other leaks found

Agustin Cendejas AP2606564 *Chino Aviation Inc.*

7000 Merrill Ave. Hangar A-340 Chino CA 91710

N5288J Aircraft hobbs: 1920 07/09/2017 Right Engine TSO: 442.5

Inspected engine, inspected oil filter, found no metal, engine run satisfactory,

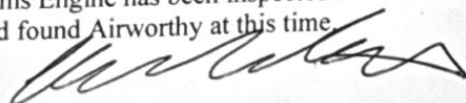
compression checked: #1 77/80, #2 77/80, #3 76/80, #4 78/80, #5 76/80, #6 78/80,


Inspected and cleaned all sparkplugs, replaced filter with 48109-2 and serviced engine with Aeroshell 100w Plus., found oil leaking out of air/oil separator and scavenge pump

on right engine, removed scavenge pump to check gears, sent to Corona Engines for inspection, pump was determined to be ok, re installed pump with new seals.,

after installation of scavenge pump engine was run and a leak was detected out of air/oil separator under turbo charger, removed separator, inspected, cleaned and re installed, the leak was coming from a loose hose leading to the scavenge pump inlet. this loose hose was allowing air to enter the oil system and permitting the scavenge pump to cavitate on engine start up therefore dumping oil for the first 10 seconds after engine start. Once all hoses and fittings were tightened the engine was starter several times and no oil leaks were found.

I certify that this Engine has been inspected In accordance with an Annual Inspection and found Airworthy at this time



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
 <p>7929 Karl May Dr. Waco, Texas 76708 CRS No. AK6R541N</p> <p style="text-align: right;">Date: <u>07/20/2017</u> Hobbs: <u>1928.4</u></p> <p style="text-align: center;"><u>TCM GTSIO-520-L S/N 292014-R</u></p> <p>On above referenced engine, troubleshot oil leak and found oil cooler cracked at lower inboard tank area. Installed new oil cooler P/N 8000464 S/N 3859642. (See 8130-3.) Operation and leak check of engine performed satisfactory and is approved for return to service for maintenance performed. Pertinent details on file under work order 4496.</p> <p><i>[Signature]</i> Air Impressions, Inc. CRS# AK6R541N</p>				
<p>Chino Aviation Inc. 7000 Merrill Ave. #33 Hangar A-340 Chino CA 91710 N5288J Hobbs:1930 02/05/2018 Right Engine Oil and filter changed both engines, serviced with Aeroshell 100w Plus oil Agustin Cendejas AP2606564</p> <p style="text-align: right;"><i>[Signature]</i></p>				
				SUB-TOTALS this page
				TOTALS —Carry forward to next page

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



7929 Karl May Dr.
Waco, Texas 76708
CRS No. AK6R541N

Engine TT: 2387.6
 Engine SMOH: 547.1 (8/06)
 Prop SMOH: 547.1 (9/06)
 Hour Meter: 1976.2
 Date: 11/01/2018

Continental GTSIO-520-L S/N R-292327-R


On above referenced engine, removed all cowling for 100 Hour/Annual Inspection. Cleaned and gapped spark plugs. Drained oil, installed new oil filter and refilled engine with Aeroshell mineral oil. Checked magneto timing. Inspected plug harness and all engine electrical. Checked all engine controls for movement and attach points. Inspected intake and exhaust system, condition and integrity of all engine accessories. Inspected engine mounts, all baffles and cowling. Inspected prop, spinner and bulkhead. Inspected all fuel, oil and hydraulic lines and fittings. Ran compressions and readings were: 1) 75/80, 2) 76/80, 3) 75/80, 4) 75/80, 5) 65/80, 6) 70/80. C/W A.D. 2000-01-16 per paragraphs (b), (c), (d) and (e). (Paragraph (b) next due at 2026.2 HM.) C/W A.D. 2007-05-15 per para. (2) and (3). Para. (2) readings were: 1) .037 2) .036, 3) .037, 4) .036. (Para. (2) next due at 2076.2 HM.) (Para. (3) next due at 2376.2 HM.) Installed new #4 fuel pressure regulator air reference line. Installed overhauled cylinders from RAM, P/N's CL74.0-231-OH. (See tags.) Installed new lifters, P/N 628488 and 653877. Installed new piston pins, P/N 630046. Engine systems set-up to GTSIO-520-L Specs. All A.D.'s researched through bi-weekly 2018-20. See A.D. listing in log binder for all current and future compliance times. Above work done in accordance with Continental and Cessna Service Manuals and Air Impressions, Inc. 100 Hour/Annual Checklist. Engine ground run-up leak checked good and approved for return to service. Pertinent details are on file under work order 4644.


 Air Impressions, Inc.
 CRS# AK6R541N



7929 Karl May Dr.
Waco, Texas 76708
CRS No. AK6R541N

I certify this Engine has been inspected in accordance with a 100 HR. Inspection and has been determined to be in an airworthy condition.

DATE 11/01/2018 HM 1976.2
 ENGINE SMOH 547.1 (8/06)
 ENGINE TT 2125.7
 WORK ORDER #4644
 SIGNED 

AIR IMPRESSIONS, INC
 REPAIR STATION # AK6R541N

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7929 Karl May Dr.
Waco, Texas 76708
CRS No. AK6R541N

Engine TT: 2447.9
Engine SMOH: 607.4 (8/06)
Hour Meter: 2036.5
Date: 12/03/2019

Continental GTSIO-520-L S/N R-292327-R

On above referenced engine removed this date for crankcase change. Pertinent details are on file under work order 4789.

[Signature]

Air Impressions, Inc.
CRS# AK6R541N

Date	Total Time In Service	Total Time Since Overhaul	Recording Meter Time
1/29/2020	2447.9	607.4	2036.5



RAM Aircraft, Limited Partnership • Waco Regional Airport

Continental GTSIO-520-L Right Engine S/N 292327-R

The above referenced engine was disassembled to facilitate a case change. The engine was cleaned, inspected and reassembled to service limits per CMI Standard Practice Maintenance Manual M-0 and CMI Overhaul Manual X-30045. Reused crankshaft, prop shaft, reduction gear, quill shaft and rod bearings. Installed new crankcase S/N R18LA299, camshaft S/N XGF18041, reduction gear bearings, prop shaft bearings, main bearings and new lifters p/n SA628488 (int.), p/n SA646277 (exh.). C/W MSB96-10B ultrasonic inspection. AD 2007-05-15 c/w per MSB94-4H or latest revision, Part 3. Next 100 hour inspection due 2136.5. Next 400 hour inspection due 2436.5. Rods balanced to RAM specifications and new bolts and nuts installed in rods. Disassembled and cleaned cylinders. Reinstalled cylinder assemblies. Installed overhauled oil pump S/N DV104111. Installed accessories in their respective positions with existing time in service with the exception of the vacuum pump, tach generator and hydraulic pump which were not installed per this work order. Cleaned and flushed prop governor, oil cooler and starter adapter. Serviced engine with Aeroshell 100 oil. Ran in test cell for 1 hour. Engine is approved for return to service for work performed. Engine preserved per CMI M-0 Standard Practice Maintenance Manual temp. storage up to 90 days. Pertinent details on file under Project No. 9365.

[Signature]

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

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				TOTALS brought forward from previous page

El Paso Aero, Inc.
Avionics Associates
7305 Boeing Drive
El Paso, Texas 79925
FAA CRS#VL1R562K

N#: N5288J
S/N: 421C0158
Mx Hobbs: 2020.4

Mfg: Cessna
W.O.#: 70175
Flt Hobbs: 392.8

Model: 421C
Date: 07/24/19

Page 1 of 1

The following maintenance performed in accordance with Maintenance Manual and current service information:
 • Installed new ALV-9610 alternator S/N H-T053736 and ops checked ok.
 This engine is approved for return to service and is airworthy with respect to the work performed. Pertinent details of work performed are on file at this agency under WO#70175.

[Signature]
Jason Chenausky



7929 Karl May Dr.
Waco, Texas 76708
CRS No. AK6R541N

Engine TT: 2447.9
Engine SMOH: 607.4 (8/06)
Prop SMOH: 607.4 (9/06)
Hour Meter: 2036.5
Date: 02/14/2020


Continental GTSIO-520-L S/N R-292327-R

On above referenced engine, removed all cowling for 100 Hour Inspection. Installed new spark plugs. Checked magneto timing. Inspected plug harness and all engine electrical. Checked all engine controls for movement and attach points. Inspected intake and exhaust system, condition and integrity of all engine accessories. Inspected engine mounts, all baffles and cowling. Inspected prop, spinner and bulkhead. Inspected all fuel, oil and hydraulic lines and fittings. Ran compressions and readings were: 1) 62/80, 2) 68/80, 3) 70/80, 4) 75/80, 5) 73/80, 6) 67/80. Found cracked crankcase, removed and sent to RAM for case change, received and re-installed. (See RAM log entry.) Installed new oil filter and refilled engine with Aeroshell 100 Plus oil. C/W A.D. 2000-01-16 per paragraphs (b), (c), (d) and (e). (Paragraph (b) next due at 2086.5 HM.) C/W A.D. 2007-05-15 per para. (2) readings were: 1) .035, 2) .037, 3) .035, 4) .038. (Next due at 2136.5 HM.) Installed new bypass elbow, P/N A9910300-3, S/N 75557. (See tag.) Installed new overboard exhaust, P/N K9910300-02, S/N 273277. All A.D.'s researched through bi-weekly 2020-02. See A.D. listing in log binder for all current and future compliance times. Above work done in accordance with Continental and Cessna Service Manuals and Air Impressions, Inc. 100 Hour/Annual Checklist. Engine ground run-up leak checked good and approved for return to service. Pertinent details are on file under work order 4789.

[Signature]
Air Impressions, Inc.
CRS# AK6R541N

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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
				TOTALS brought forward from previous page
 <p>AIR IMPRESSIONS, INC. PROFESSIONAL AIRCRAFT SERVICE</p> <p>7929 Karl May Dr. Waco, Texas 76708 CRS No. AK6R541N</p>				<p>I certify this <u>Engine</u> has been inspected in accordance with a 100 HR. Inspection and has been determined to be in an airworthy condition.</p> <p>DATE <u>02/14/2020</u> HM <u>2036.5</u> ENGINE SMOH <u>607.4 (8/06)</u> ENGINE TT <u>2447.9</u> WORK ORDER #<u>4789</u> SIGNED <u>[Signature]</u> AIR IMPRESSIONS, INC REPAIR STATION # AK6R541N</p>
<p>CENTERLINE AIRCRAFT, LLC 602-300-3791</p> <p>N5288J C421C S/N: 421C0158 HOBBS: 2053.3 AFTT: 6150.7 5/1/2021 #1 GTSIO 520-L S/N: 292327-R SMOH:624.4</p> <p>PERFORMED THE FOLLOWING:</p> <ol style="list-style-type: none"> 1. 100 HOUR INSPECTION. 2. REPLACED PISTON PINS. 3. CHANGED OIL AND FILTER, AS 100 PLUS. 4. COMPRESSIONS 1/74, 2/75, 3/75, 4/71, 5/72, 6/70 5. SET FUEL FLOWS. 6. AD'S CHECKED THROUGH 2021-09. 7. C/W AD 2007-05-15 DATED 4-16-2007 STARTER ADAPTER BY INSPECTION NEXT DUE 6250.7 TT. <p>I CERTIFY THIS ENGINE HAS BEEN INSPECTED AND OR REPAIRED IAW FAA REGULATIONS AND FOR THE WORK PERFORMED IS APPROVED FOR RETURN TO SERVICE.</p> <p style="text-align: center;"><u>[Signature]</u> LAWRENCE AFANA AP3643646</p>				

