

DATE

TACH OR
RECORDING
METER
TIMEDESCRIPTION OF WORK PERFORMED --
SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
WESTERN
Skyways
 INC.

GOLD SEAL AIRCRAFT ENGINES

 21 Creative Place
 Montrose, CO 81401
 www.westernskyways.com

 (970) 576-8829
 (970) 249-8232
 FAX: (970) 248-1156

Engine Make: CONTINENTAL Model: TSIO-520-NB
 Serial Number: 521396 W/O No: 22148 Date: 02/11/08
 Warranty Number: B8037 Warranty Start Date: 02/08
 Crankshaft Serial No: E249112N Cylinder Part Number: TIST71.2BCA

This engine and accessories listed below were overhauled to "Factory New Tolerances" per Overhaul Manual No: X30574A See back section for Airworthiness Directives and Service Bulletin compliance. This engine was run in a test cell. Total Previous Time: 3452.1 Hrs.

This engine meets requirements of CONTINENTAL SIL98-9A for 1600.0 Hour TBO.

The accessories listed below were new or overhauled and supplied with this engine:

Component	Part No.	Serial No.	Component	Part No.	Serial No.
L/H Mag:	10-349220-5	F01GA137R	Vac Pump:	N/A	N/A
R/H Mag:	10-349260-6	F07BA174R	Wastegate:	N/A	N/A
Fuel Pump:	646210-22A5	B07LA045R	Alt/Gen:	N/A	N/A
Inj/Carb:	636143A15	A05EA141R	Controller:	N/A	N/A
Man Valve:	634326-12A8	C07LA044R	Controller::	N/A	N/A
Starter:	ES646275-1	H096679	Fuel Limiter:	N/A	N/A
Turbo:	407810-9001	YHO35522	Gov Prop:	N/A	N/A
			Hyd Pump:	N/A	N/A
			Hyd Pump:	N/A	N/A

MAINTENANCE RELEASE

The engine and accessories listed above were overhauled and inspected in accordance with current Federal Aviation Regulations and were found airworthy for return to service. Pertinent details of this repair are on file at this Repair Station on above work order.

Signature:

Repair Station No. WS9R5751

Cessna 414A

N4680N

Teledyne Continental TSIO-520-NB

DATE

S/N 414A0070
Hobbs 2386.9
airframe TT 9771.2
Date: 1/6/09

s/n 521396
position: left
engine time 0.0
engine total time 3452.1

- Left engine s/n 521396 was overhauled on Western Skyways on w/o 22148 was installed in accordance with Cessna 414/414A maintenance manual and Teledyne Continental overhaul manual and service bulletins
- engine was installed with accessories listed in the engine logbook
- additional accessories consist of
 - Pressure relief valve 470944-9015 s/n RKR4731 overhauled by Western Skyways
 - VAPC 470836-9020 s/n JI0140 overhauled by Western Skyways
 - Wastegate 470908-9012 s/n VI-L0101 overhauled by Western Skyways
 - Alternator ALV9510 s/n A-102183 overhauled by Rocky Mountain Aircraft Accessories
 - Hydraulic Pump 24194-LAA s/n 070405 overhauled by Rocky Mountain Aircraft Accessories
 - Vacuum Pump 442CW s/n 124646 overhauled by Rapco
 - Complete exhaust system overhauled by Dawley
 - Tailpipe overhauled by Aerospace Welding
- All fluid carrying hoses installed new, manufactured by Aviall on w/o 41532918-0
- American Aviation Intercooler kit was installed in accordance with STC SA4956NM and SE4159NM
- Kit was installed in accordance with report 63-7 dated 05/04/93, drawing 63-11010 and drawing 63-11011 rev A
- Flight manual supplement was put into aircraft flight manual and the weight and balance was updated
- See two 337's for engines this date and see 337 for airframe this date

Josh Hartung

Josh Hartung

AP2751095

Cessna 414A
S/N 414A0070
Hobbs 2397.1
TTAF 9781.4
4/17/2009

4680N
left engine

Teledyne Continental
TSIO-520-NB
s/n 521396
l/h engine 10.2
TT 3460.3

Perform 100 hr inspection in accordance with Cessna 414A service manual and checklist
Oil and oil filter was not serviced at this time
Compressions where not performed at this time because of low time on engines
Balanced l/h propeller with 18.4 grams at 195 degrees and 25.1 at 210 degrees final vibration is 0.06 at 346.

Josh Hartung AP2751095

Josh Hartung

4/17/2009

10/20/09

2450.1 Hobbs

3515.3 TT

Drained oil & removed filter Serviced w/ Phillips X20W50 &
CH 48108-1 oil filter. Cut open filter & no metal noted. Run
up + l/h ck ok *Josh Hartung* AP2751095

Cessna 414A
S/N 414A0070
Hobbs 2497.1
TTAF 9881.4
03/01/10

4680N
left engine

Teledyne Continental
TSIO-520-NB
s/n 521396
l/h engine 110.2
l/h engine tt 3560.3

Perform annual inspection in accordance with Cessna 414A service manual and checklist
Drained oil and serviced with Phillips X/C 20w50 oil and CH48108 oil filter
Compressions results are #1, 75/80 #2, 75/80 #3, 76/80 #4, 75/80 #5, 78/80 #6, 75/80
Complied with AD 2009-16-03, N/A by cylinder part number.
Complied with AD 2009-19-07 C2, N/A by cylinder part number.

I certify that this engine has been inspected in accordance with an annual inspection and found to be in an airworthy condition.

Josh Hartung AP2751095

Josh Hartung

03/01/2010

D.

Kubick Aviation Services, Inc.

2300 Woodward Ave., Kingsford, MI 49802
Ph: 906-779-5500 Fax: 906-779-5526 Email: info@KubickAviation.com

L/H ENGINE LOG ENTRY N4680N

Date: 07/26/2013 Hobbs: 88.3 TTAF: 10191.9 EngTT: 3872.8 EngSMOH: 420.7

Performed Annual Inspection as per Kubick Aviation Services, Inc. annual inspection checklist and Cessna 414 maintenance manual.

1. Compression checks: #1-73, #2-74, #3-76, #4-72, #5-73, #6-74
2. Drained oil, removed and replaced oil filter, cut and inspected filter for metal. No appreciable metal found at this time. Serviced engine with 11 quarts Phillips 20W50 X/C oil.
3. Removed, cleaned, gapped, inspected and reinstalled all spark plugs.
4. Washed down engine and lubed all engine controls.

Ground run up and leak check, O.K.

I certify that this ENGINE has been inspected in accordance with an **Annual Inspection** and was determined to be in airworthy condition. Pertinent details of the repair are on file at this agency.

Work order #: 3197

Signed


Chad Kubick APTA3244207

Kubick Aviation Services, Inc.

2300 Woodward Ave., Kingsford, MI 49802
Ph: 906-779-5500 Fax: 906-779-5526 Email: info@KubickAviation.com

L/H ENGINE LOG ENTRY N4680N

Date: 08/25/2013 Hobbs: 94.7 TTAF: 10198.3 EngTT: 3879.2 EngSMOH: 427.1

1. Checked and adjusted engine fuel flows and pressures IAW TCM SID97-3. Operational check engine, O.K.

I certify the aircraft and/or components identified hereon was repaired and inspected in accordance with the current Federal Air Regulation and was found airworthy for return to service. Pertinent details of the repair are on file at this agency. **Work order No.: 3456**

Signed


Chad Kubick APTA3244207

Kubick Aviation Services, Inc.

2300 Woodward Ave., Kingsford, MI 49802
Ph: 906-779-5500 Fax: 906-779-5526 Email: info@KubickAviation.com

L/H PROPELLER LOG ENTRY N4680N

Date: 9/27/2013 Hobbs: 108.3 TTAF: 10211.9 L/HPropTT: 2188.2 L/HPropSMOH: 24.6

1. Balanced L/H propellers with ACES systems propeller balancer as needed.

I certify the aircraft and/or components identified hereon was repaired and inspected in accordance with the current Federal Air Regulation and was found airworthy for return to service. Pertinent details of the repair are on file at this agency. **Work order No.: 3527**

Signed


Chad Kubick APTA3244207

END

ENGINE MODEL: TS10-520-NB
 ENGINE S/N (L): 521396
 REG NO: 4680N
 WORK ORDER: 5427



Kubick Aviation Services, Inc.

Repair Station No. 2KAR596C
 250 Riverhills Road
 Kingford, MI 48802
 Phone 800-779-3500

DATE: 4/14/2016
 A/C TSN: 10222.1
 ENG TT (L): 3903
 TSMOH (L): 450.9
 HOBBS: 118.5

Left Engine Entries

- 2 C/W an Annual Inspection on this Engine this date. Changed oil and filter. Cut filter and found to be clean at this time. Serviced engine with 11 quarts of 20W50 Phillips. Completed a Compression Check and the results were as follows: (1) 71/80 (2) 72/80 (3) 76/80 (4) 72/80 (5) 58/80 (6) 76/80. Completed a run up and found the engine to operate to specs and to be free of leaks.
- 10 AD 2014-05-29 is not applicable as no Superior Air Parts cylinders are installed.

Maintenance Release

This Engine was inspected IAW an Annual Inspection and the engine and/or component(s) on 4680N were repaired in accordance with current FARs rules of the Federal Aviation Regulations and was found Airworthy for return to service. Pertinent details of the repair are on file at this Repair Station under Work Order No. 5427, Dated 4/14/2016.

DATE: 4/14/2016

SIGNED:

Tim Lawler
 Certified Repair Station No. 2KAR596C

Work Order: 5427

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Cessna 414A
 S/N 414A0070
 Hobbs 122.1
 TTAF 10225.7
 12/27/2016

4680N
 left engine

Teledyne Continental
 TS10-520-NB
 s/n 521396
 I/h engine 454.2

Perform 100 hr inspection in accordance with Cessna 414A service manual and checklist
 Oil and oil filter was not serviced at this time
 Performed compression check #1. 74, #2. 72, #3. 74, #4. 70, #5. 70, #6. 70 all over 80

Kent Hersey AP2460727 *Kent Hersey* 12/27/2016

137.3	Hobbs	Removed engine and shipped to Aero
2/10/17		Recip in Winnipeg, MB for repair
		Josh Dentung AP2751095

Date: May 24, 2017

This engine repaired due to metal contamination as per Overhaul Manual P/N X30574 revised October 2013. Full details held on Work Order No.1703033. The Maintenance described has been performed in accordance with the applicable standards of airworthiness.

Engine sprayed internally with type II corrosion inhibitor.

Model No.: TS10-520-NB
Serial No.: 521396
TTSN: 3906.3 hrs; **TSO:** 454.2 hrs.
Crankshaft Serial No.: N05EA244

Authorized Signatures *Robert K...*
Aero Recip (Canada) Ltd.
 540 Marjorie Street
 Winnipeg, Manitoba R3H 0S9
 AMO 45-89



Cessna 414A
S/N 414A0070
Hobbs 122.1
TTAF 10225.7
12/1/2017

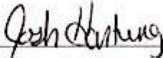
4680N
left engine

Teledyne Continental
TSIO-520-NB
s/n 521396
l/h engine 454.2

Installed engine back onto the left hand position of Cessna 414A s/n 414A0070 N4680N after repairs by Acro Recip In Winnipeg.
Serviced with Aeroshell 80 mineral oil.
Installed new fluid carrying hoses. Hoses fabricated by Aviall in Denver, CO on order 1003283827

I certify that this engine has been inspected in accordance with Cessna 414A service manual and checklist and found to be in an airworthy condition

Josh Hartung IA 2751095



12/1/2017

Cessna 414A
S/N 414A0070
Hobbs 229.1
TTAF 10332.7
5/15/2019

4680N
left engine

Teledyne Continental
TSIO-520-NB
s/n 521396
l/h engine 561.5

-Perform 100 hr inspection in accordance with Cessna 414A service manual and checklist
-Installed overhauled starter p/n 646275-1, s/n H-K110526. Overhaul accomplished by Kelly Aerospace in Montgomery, AL under cert# UT2R226L on wo# M627110
-Installed overhauled starter adapter p/n 642085A2 s/n CAM18-244 on left hand engine. Unit overhauled by Canadian Aero Manufacturing under cert #384-91 on wo# 18-244
-Installed new alternator p/n ALV-9610 s/n H-S091525 on left hand engine.
-Performed compression check #1. 80, #2. 78, #3. 80, #4. 78, #5. 78, #6. 77 all over 80

I certify that this engine has been inspected in accordance with Cessna 414A service manual and checklist and found to be in an airworthy condition

Josh Hartung IA 2751095



5/15/2019

Cessna 414A
S/N 414A0070
Hobbs 240.1
TTAF 10343.7
05/01/2020


4680N
left engine

Teledyne Continental
TSIO-520-NB
s/n 521396
l/h engine 572.5

-Perform 100 hr inspection in accordance with Cessna 414A service manual and checklist
-Performed compression check #1. 80, #2. 78, #3. 80, #4. 78, #5. 78, #6. 77 all over 80

I certify that this engine has been inspected in accordance with Cessna 414A service manual and checklist and found to be in an airworthy condition

Josh Hartung IA 2751095



05/01/2020

Cessna 414A
S/N 414A0070
Hobbs 247.3
TTAF 10350.9
04/23/2021

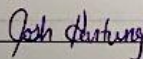
4680N
left engine

Teledyne Continental
TSIO-520-NB
s/n 521396
l/h engine 579.7

-Perform 100 hr inspection in accordance with Cessna 414A service manual and checklist
-Performed compression check #1. 68, #2. 70, #3. 70, #4. 74, #5. 70, #6. 74 all over 80
-Oil not changed at this time

I certify that this engine has been inspected in accordance with Cessna 414A service manual and checklist and found to be in an airworthy condition

Josh Hartung IA 2751095



04/23/2021

DATE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED -- SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK																				
6/26/21	268.3	Drained oil, removed & examined filter - no anomalies noted. Installed new filter 48108 + 11qt Philips 20w-50 + 1pt Camguard 4187490 4187490																				
<table border="1"> <tr> <td>REG #</td> <td>N4680N</td> <td>DATE</td> <td>9/1/2021</td> </tr> <tr> <td>MODEL</td> <td>Cessna 414A</td> <td>HOBBS</td> <td>276.8</td> </tr> <tr> <td>SERIAL #</td> <td>414A-0070</td> <td>A/C TT</td> <td>10380.4</td> </tr> <tr> <td>Engine Model</td> <td>TSIO-520-NB</td> <td>CYCLES</td> <td></td> </tr> <tr> <td>Engine S/N</td> <td>521396</td> <td colspan="2" style="text-align: center;">LOGBOOK INSERT</td> </tr> </table> <p>Left Engine: TSO 627.2</p> <ol style="list-style-type: none"> Complied with A.D. 2000-01-16 para. B by visual inspection of the exhaust system. Due each 50-hrs/ 30-days whichever is later. Next due at AFTT: 10430.4 (Hobbs 326.8) or 10/1/2021 whichever is later. Removed and replaced six (6) fuel nozzles with new GAMI Injectors IAW STC SE09289SC. See 337 form filed this date. Installed a Tanis engine pre-heater system TSP6CYL-2927-115 IAW STC SE03309CH. See 337 form filed this date. Removed, cleaned, and reinstalled the inboard and outboard exhaust slip joints using new approved hardware from Ram Aircraft. Installed a serviceable O/B exhaust heat shield at the slip joint connection. Repaired the I/B exhaust shield at the slip joint connection. <p>The Aircraft and/or Component(s) identified above in the scope of this work order were repaired and/or inspected in accordance with current applicable Federal Aviation Regulations and were determined to be airworthy for return to service for the work performed at this time/date.</p> <p>DATE 9/1/2021 SIGNED <u>Thomas W. Thunstrom A/P 4768604481A</u> Thomas W. Thunstrom A/P 4768604481A</p>			REG #	N4680N	DATE	9/1/2021	MODEL	Cessna 414A	HOBBS	276.8	SERIAL #	414A-0070	A/C TT	10380.4	Engine Model	TSIO-520-NB	CYCLES		Engine S/N	521396	LOGBOOK INSERT	
REG #	N4680N	DATE	9/1/2021																			
MODEL	Cessna 414A	HOBBS	276.8																			
SERIAL #	414A-0070	A/C TT	10380.4																			
Engine Model	TSIO-520-NB	CYCLES																				
Engine S/N	521396	LOGBOOK INSERT																				
10/12/21	292.4	Drained oil, removed & inspected filter. no anomalies noted. Installed new filter 48108 + 11qt Philips 20w-50 + 1pt Camguard 4187490 4187490																				
12/12/21	312.7	Drained oil, removed & inspected filter - no anomalies noted. Installed new filter 48108 + 11qt Philips 20w-50 + 1pt Camguard 4187490 4187490																				
3/14/22	337.9	Drained oil, removed & inspected filter - no anomalies noted. Installed new filter 48108 + 11qt Philips 20w-50 + 1pt Camguard 4187490 4187490																				

Page No

DA

REG #	N4680N	DESCRIPTION OF WORK PERFORMED INDICATE NO. OF PERSON PERFORMING LOGBOOK INSERT	DATE	6/02/2022
MODEL	Cessna 414A		HOBBS	350.0
SERIAL #	414A-0070		A/C TT	10453.6
Engine Model	TSIO-520-NB		CYCLES	
Engine S/N	521396			

Left Engine: ETT: 4152.5 TSO 700.4

1. Completed a 100-hr inspection of the engine.
2. Completed compression test. #1) 75/80 #2) 70/80 #3) 74/80 #4) 72/80 #5) 76/80 #6) 78/80. Master orifice reading 43 psi. Completed boroscope of engine cylinders. No anomalies noted.
3. Drained oil. Complied with CSB07-01A, no particles noted. Removed oil filter and examined, no anomalies noted at this time/date. Installed new oil filter P/N CH48108. Added 11 quarts Phillips 20w-50 oil and 1 pint of CAMGARD.
4. Removed and replaced magneto capacitor with new P/N 10-40015.
5. Timed magnetos to engine.
6. Removed turbo support, removed corrosion, treated, painted and reinstalled.
7. Completed post maintenance leak and operational checks. Both found good.
8. I certify that this engine has been inspected in accordance with a 100-hr inspection and was determined to be in airworthy condition at this time/date.

The Aircraft and/or Component(s) identified above in the scope of this work order were repaired and/or inspected in accordance with current applicable Federal Aviation Regulations and were determined to be airworthy for return to service for the work performed at this time/date.

DATE 6/02/2022

SIGNED *Thomas W. Thunstrom* A/P 476860448IA

Thomas W. Thunstrom A/P 476860448IA