

TYPE ET N° (Aéronef) - Type and Serial Number of Aircraft: **TB-20 N188GT**

Dates Date		- Réparateur contrôle and Signature of authorizing Authority	
Rebuilt Reciprocating Engine Certificate This is to certify that the engine as described hereinafter has been REBUILT in accordance with the applicable Lycoming specifications. It has been determined airworthy to return to service and is in a condition for safe operation. All applicable Federal Aviation Administration Airworthiness Directives and Lycoming Service Publications have been complied with. All accessories as part of the type certificate are new or newly rebuilt. Refer to enclosed Form ET001 for applicable accessory part numbers and serial numbers. Part Number: RENPL-RT8468 Serial Number: RL-28144-48E Engine Model: IO-540-C4D5D Work Order: AR580543 Total Time: 0.0 <i>Lee Adams</i> Authorized Representative Date: 9/19/13 Production Certificate #3 652 Oliver Street Williamsport, PA 17701 U.S.A Lycoming Engines is a division of Avco Corporation Form 2481 Rev 05/13			
LYCOMING Engine Logbook Date: 3-14-14 Socata TB-20 N188GT S/N 2048 Tac & TT 1292.0 Installed 0 since rebuild engine. Engine IO-540-C4D5D S/N was rebuilt by Lycoming of Williamsport, PA. under Work Order AR580543 engine installed using new gaskets and seals where needed. New oil filter and serviced with 12qts aeroshell 50wt mineral oil. Reinstalled propeller on engine after servicing and complete visual inspection. Engine ran and set idle speed and idle mixture. Engine ran three times for 20 minutes each, no leaks or problems noted. Engine found to be in a airworthy condition and ok for return to service. <i>David M. ...</i>			

MOTEUR SUR AÉRONEF - ENGINE INSTALLED IN AIRCRAFT

Immatriculé - Registration :

Dates Date	Fonctionnement - Time run				Observations sur le fonctionnement du moteur et accessoires Observations on the running of Engine and Accessories	
	Partiel / Partial		Total depuis neuf Total since new			Depuis R.G. Since last O/H
	H	Cycles*	H	Cycles*		
Chris Aircraft Inc Newport Airport 211 Access Rd Middletown RI 02842 401-846-4550. Cell 401-418-0335. Email chrisaircraftinc@AOL.com 01-12-2016. N188GT. Tach 1408.3 Changer oil and filter, serviced with Aeroshell 15W50 and new oil filter. Run and leaked checked normal. Chris Drago AP30776381A						

N188GT

12/7/16

Tach. 1459.5 TTE 167.5hrs

Changed oil and filter. Checked oil suction screen. Serviced with Aero Shell 15W50 oil. Cleaned and gapped spark plugs. Retimed magneto. Compression check 1) 77/80 2) 75/80 3) 77/80 4) 76/80 5) 74/80 6) 76/80. CW AD 2015-19-07, checked fuel inj. Lines. Next due 12/17 or 1559hrs.

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



IA2040789

TYPE ET N° (Aéronef) - Type and Serial Number of Aircraft:

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Chris Aircraft Inc Newport Airport 211 Access Rd Middletown RI 02842 401-846-4550. Cell 401-418-0335. Email chrisaircraftinc@AOL.com 6/13/2017 N188GT TB20 SN 2048 TACH 1508.4 RAN ENGINE AND DRAINED OIL. INSTALLED NEW OIL FILTER CH48103 AND SERVICED WITH 11 QTS OF 15W50. GROUND RAN AFTER WORK WAS COMPLETE AND NO LEAKS WERE FOUND AT THIS TIME <i>Chris Drago</i> AP28289971A Chris Aircraft Newport Airport Middletown RI 02842 401-846-4550, FAX 401-846-4334. CELL 401-418-0335 02-01-2018, N188GT, SN 2048, TT 1535.5 Engine Lycoming IO-540 - C4DSD, SN RL- 28144-48E, TT 243.5 Propeller Hartzell, HC-C3YR1RF, SN D44850B, TT 1535.5, TSMO 76.0. Cleaned and gapped spark plugs, checked compression, #1-74 #2-74 #3-72 #4-72 #5-74. #6-74 over 80. Checked fuel system drained sumps and inspected. Cleaned all screens and gascolator as Needed. Checked alternator or generator as needed. Checked magnetos and timing. Functionally checked engine and systems. Serviced with Aeroshell 15W50, CH48103 oil filter and BA2905. AD15-19-07. Fuel Injection lines and clamps CW per SB 342G next due 1635.5 All fuel injectors removed cleaned and reinstalled.. Tightened oil pressure transducer due to leak. Oil return tubes tightened to stop oil leaks. I certify that this aircraft engine has been inspected in accordance with an annual inspection and determined to be in airworthy condition. Chris Drago AP30476381A <i>Chris Drago</i>		

MOTEUR SUR AÉRONEF - ENGINE INSTALLED IN AIRCRAFT

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	H	Cycles*	H	Cycles*		
Chris Aircraft Inc Newport Airport 211 Access Rd Middletown RI 02842 401-846-4550. Cell 401-418-0335. Email chrisaircraftinc@AOL.com 09/12/2018 NI88GT SOCAT A TB20 TACH 4889 TT 1538.4 Ran engine and drained oil. Installed new oil filter CH48103-1. Serviced with 11 qts of 15W50. Adjusted prop gov to make static rpm. Ground ran after work was complete and no leaks or defects noted at this time <i>[Signature]</i> AP2828991A						
Chris Aircraft Newport Airport Middletown RI 02842 401-846-4550 3/20/2019 NI88GT SOCAT A TB20 SN 2048 TACH 1598.4 ENGINE LYCOMING IO-540-C4D5D SN RL-281144-48E TT 306.4 PROP HARTZELL HC-C3YRIRF SN D44850B TT 1598.4 TSMOH 538.9 306.4 Cleaned and gapped spark plugs, checked compression, #1- 70 #2- 76#3- 74 #4- 76 #5- 70#6- 74 over 80. Checked fuel system drained sumps and inspected. Cleaned all screens and gascolator as needed. Checked alternator or generator as needed. Checked magnetos and timing. Functionally checked engine and systems. Serviced with 11 QTS OF 15W50, CH48103 OIL FILTER, BA2905 AIR FILTER. AD15-19-07 EXTERNAL FUEL LINES AND CLAMPS. CW by inspection, this is due every 12 months or any time work is performed on lines or clamps. Next due 3/2020 Removed and cleaned all fuel injectors. Tightened all exhaust muffler clamps as needed. #3 intake gasket was replaced PN 71973. Removed prop and gov sent to New England prop and had low pitch stops reset. Installed after work was complete. Test flight was completed after and all opps check were normal I certify that this aircraft engine has been inspected in accordance with an annual inspection and determined to be in airworthy condition. <i>[Signature]</i> AP2828991A						

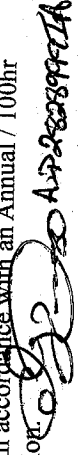
MOTEUR SUR AÉRONEF - ENGINE INSTALLED IN AIRCRAFT

Immatriculé - Registration :

Dates Date	Fonctionnement - Time run					Observations sur le fonctionnement du moteur et accessoires Observations on the running of Engine and Accessories
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	H	Cycles*	H	Cycles*	H	
Chris Aircraft Newport Airport Middletown RI 02842 401-846-4550, FAX 401-846-4334. chrisaircraft@aol.com 03/30/2020 N188GT SOCATA TB-20 S/N 2048 TT 1625.1 TACH 1625.1 ENGINE LYCOMING IO-540-C4D5D S/N RL28144-48E TT 296.4 PROP HARTZELL HC- C3YR1RF S/N D44850B TT1625.1 TSMOH 333.1 Cleaned and gapped spark plugs, checked compression, #1-70 #2-74 #3-74 #4-76 #5-70 #6-74 over 80. Checked fuel system drained sumps and inspected. Cleaned all screens and gasolator as needed. Checked alternator or generator as needed. Checked magnetos and timing. Functionally checked engine and systems... cleaned engine and lubricated engine controls. CW AD 15-19-07 External Fuel Injector lines and clamps CW by visual inspection. Due everytime work is performed on or around clamps. Ran engine. Drained oil. Serviced with 11Qts of Aeroshell 15w-50 CH48103-1 oil filter air filter BA-2905 Removed Cleaned and Reinstalled Fuel injectors / RPM Sensor P/N 420803 Replaced all Spark plugs P/N RHM38E Primer line clamps on #5 cylinder replaced P/N MS21919WDE Ran Engine after completion of work all ops checks fine at this time. I certify that this aircraft engine has been inspected in accordance with an Annual / 100hr inspection and determined to be in airworthy condition. <i>Chris Aircraft</i>						

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TYPE ET N° (Aéronef) - Type and Serial Number of Aircraft:

Dates Date	Détail travaux entretien - Dégroupages - Révisions partielles ou générales - Modifications - Stockage moteur et accessoires Particulars of maintenance, Top or Complete Overhauls, Repairs, Replacements, Modifications, including records of periods when engine and accessories are inhibited	Cachets - Signature - Réparateur Organisme de contrôle Commercial Stamp and Signature of Overhauler and Controlling Authority
Chris Aircraft Newport Airport Middletown RI 02842 401-846-4550 FAX 401-846-4334 04/27/2021 N188GT SOCATA TB 20 S/N 2048 TT 1653.3 TACH 1653.3 ENGINE LYCOMING IO-540-C4D5D S/N RL-28144-48E TT 334.6 PROP HARTZELL HC- C3YR1RF S/N D44850B TT 1653.3 TSMOH 334.6 Cleaned and gapped spark plugs, checked compression, #1-72 #2-76 #3-74 #4-74 #5-74 #6-74 over 80. Checked fuel system drained sumps and inspected. Cleaned all screens and gasolator as needed. Checked alternator or generator as needed. Checked magnetos and timing. Functionally checked engine and systems... cleaned engine and lubricated engine controls. Serviced with 12 Qts Aeroshell 15w50 CH48103-1 oil filter BA 2905 air filter. Took oil sample and sent to AVLABS C/W AD 15-19-07 external fuel injector lines c/w by visual inspection due every time work is performed on or around clamps. NEXT DUE 04/2022-1753.3 TACH Removed cleaned and reinstalled fuel injectors as needed Installed new manifold pressure filter p/n N7284480058 Ran engine after completion of work no leaks found at this time. I certify that this aircraft engine has been inspected in accordance with an Annual / 100hr inspection and determined to be in airworthy condition.  A72828997A		
N188GT TACH: 04 1653.3, 7 December 20, 2021 1. Installed repaired fuel pump from QAA, WO# 081171. Ops check satisfactory. Installed P/N H8120-H - Fuel pump. With respect to the work performed, this airframe is approved for return to service. Details of work per- formed are on file with Chris Aircraft Inc under work order: WO_97. Andy Drago A&P IA 2828999 		

MOTEUR SUR AÉRONEF - ENGINE INSTALLED IN AIRCRAFT

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	H	Cycles*	H	Cycles*	H	Cycles*
Report Brought forward	page 1 of 1 N188GT LYCOMING, 10-540-C4D5D, S/N: RL-28144-48E May 04, 2022 TACH: 1672.2 SINCE OVERHAUL: 353.5 1. C/W Annual Inspection IAW FAR 91.409(a)(1) per inspection meeting the requirements of FAR Part 43.15(2)(c) and FAR Part 43 App. 'D'. 2. Compressions 1)72. 2)70. 3)70. 4)74. 5)70. 6)70. 3. Changed oil and filter, serviced with 11qts Aeroshell oil and CH48103 filter. Removed and cleaned Fuel injectors. 4. Borescope cylinders. <i>5. C/W AD 15-19-07 FUEL INJECTOR LINES BY VISUAL INSPECTION, OK.</i> I certify that this engine has been inspected IAW Annual inspection and was determined to be in an airworthy condition. <i>Edward Clauson</i> Ed Clauson AP IA 3437357					
A reporter Carried forward						

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TYPE ET N° (Aéronef) - Type and Serial Number of Aircraft :

21

Dates
Date

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ou générales - Modifications - Stockage moteur et accessoires
Particulars of maintenance, Top or Complete Overhauls, Repairs, Replacements,
Modifications, including records of periods when engine and
accessories are inhibited

Cachets - Signature - Réparateur
Organisme de contrôle
Commercial Stamp and Signature of
Overhauler and Controlling Authority

Engine

N188GT

TACH: 1697.7

LYCOMING, IO-540-C4D5D, S/N: RL-28144-48E

TTSN: 379.0

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May 11, 2023

1. C/W Annual Inspection IAW FAR 91.409(a)(1) per inspection meeting the requirements of FAR PART 43.15 (c)(2) and FAR PART 43 APP'D".
2. Compression test as follows 1) 76 2) 76 3) 74 4) 74 5) 76 6) 76 Installed 4 new rocker gaskets RG 75906-SP
3. Ran engine Drained oil Serviced with 11 Qts Aeroshell 15w50 CH48103-1 oil filter BA2905 air filter.
4. Took Oil sample and sent to Avlabs 05/02/2023
5. Replaced 3 ft of 2" defrost Scat as needed.
6. C/W AD 15-19-07 EXTERNAL FUEL INJECTOR LINES. c/w by visual inspection. AD due any time work is done on or around clamps lines or fuel injectors. NEXT DUE 05/2024-1797.7 HM.
7. Removed cleaned and reinstalled all fuel injectors.
8. Ran engine after completion of work no leaks found at this time.

I Certify this Engine has been inspected IAW Annual Inspection and was determined to be in an
airworthy condition

Andy Drago A&p IA 282899g

