



Transport
Canada
Aviation

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TP3910E

AIRCRAFT TECHNICAL LOGS

Section 3. ENGINE

Second Edition

January 1987

Canada

ENGINE SERVICE AND

MAINTENANCE RECORD

8

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE	REPAIRS, ADJUSTMENTS, MODIFICATIONS ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.	SIGNATURE	LICENCE NUMBER
	HRS.	MIN.	HRS.	MIN.				
BROUGHT FORWARD →								
4-23-99	Hobb: 2600.6				Swired engine with 12 qt of Aeroshell 15W-50 oil and CH48108 oil filter. Checked oil filter and found to be OK! CW IAW AD75-23-08 R5 Eng system by visual insp. and found to be OK at this time. End Will Thompson AP242928525 IAW	THIS ENGINE REMOVED FROM N340 DL. ENGINE PLACED IN DRY STORAGE. FILLED CASE AND CYLINDERS WITH OIL. TALL # AP2638931	2670 HOBBS	552.3 SMOH
	oil sample taken							
8-18-99	Hobb: 2646.2				Changed oil and filter. Swired with Aeroshell 15W-50 oil and new CH48108 oil filter. Oil filter check was OK. CW AD75-23-08 R5 Eng system IAW AD by visual insp. checked OK at this time. End. Will Thompson AP242928525 IAW			
	oil sample taken							
10-1-99	Hobb: 2666.0				Compression: #1 $1\frac{1}{8}$ #2 $1\frac{1}{8}$ #3 $1\frac{1}{8}$ #4 $1\frac{1}{8}$ #5 $1\frac{1}{8}$ #6 $1\frac{1}{8}$ CW a 100 hr insp. IAW Conner 340A 100 hr Annual Insp. Sheet & Cont. Service Manual. Removed & inspected Oil Filter. OK. Replenished w/ CH48108 oil filter. Checked mag timing. Clean, repair, & reinstalled & rotated spark plugs. Clean fuel injector metering screen. Lubed oil controls. Checked hoses & spark plug wires. OK. Applied moose milk grease to gate. Disassembled starter, clean and installed new oil seal. Reinstalled & Oper. checked OK. Replaced Air filter (Bracket) Completed w/ following AD's: AD75-23-08 R5 Eng Eng. System. CW AD IAW para (a). No cracks found at this time. Next due: 2766.0 hobs. AD76-02-07 Protolite Alternator CW IAW AD by insp. of bearing & ground. Next due: 10/2000 or 2766.0 hobs. AD97-26-17 Crankshaft Fatigue cracks. CW para (b) was PCW. AD98-17-11 Crankshaft. $\frac{1}{4}$ by STC. not installed. AD98-24-14 Eng Axles. $\frac{1}{4}$ by NO WYE tube installed at that time. AD99-18-01 Crankshaft Failure. $\frac{1}{4}$ by OH date. AD98-01-08 Eng. Roller Roller Arms. $\frac{1}{4}$ by not installed. AD99-09-17 Crankshaft Failure. $\frac{1}{4}$ by OH date. All AD's cw to this date. End.			
CARRIED FORWARD								
TOTAL THIS PAGE								
TOTAL FROM PREVIOUS SUMMARY								
TOTAL SINCE MFG.								
Will Thompson AP242928525 IAW					I certify that this Engine has been inspected in accordance with a 100 hr Annual inspection and was determined to be in airworthy condition.			

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

MAINTENANCE RECORD

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

ENGINE SERVICE AND

MAINTENANCE RECORD

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LEFT

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE	REPAIRS, ADJUSTMENTS, MODIFICATIONS ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.	SIGNATURE	LICENCE NUMBER
	HRS.	MIN.	HRS.	MIN.				
BROUGHT FORWARD →								
9/13/97	Hobbs	2383.3	TOTAL	1659.4	SMOH	265.6		
CHANGED OIL & FILTER. ADDED 11 QTS Aeroshell 15W50 OIL.								
CUT OPEN OIL FILTER. CHECKED FOR CONTAMINATION, FOUND SATISFACTORY.								
PERFORMED DIFF COMP TEST I/A/W T.C.M. SB M84-15								
#1 ²² #2 ⁶⁸ #3 ²⁰ #4 ⁸⁹ #5 ²² #6 ²⁰ . (CLEANED) CAPPED & TESTED								
ALL SPARK PLUGS. CHECKED MAGNETO TIMING. CHECKED								
EXHAUST & INDUCTION SYSTEM FOR LEAKS. GROUND								
RAN. CHECKED ENGINE FOR FUEL & OIL LEAKS, FOUND								
SATISFACTORY. <i>Chatterton</i>								
A/P 220781484								
Aviation Consultants of America, Inc. 135 Green Oaks Lane Danville, VA 24540								
2/20/98	Hobbs	2446.0						
REPLACED LEFT & RIGHT INDUCTION PIPE ELBOW WITH								
NEW ELBOWS PN 111-2. <i>Chatterton</i>								
A/P 220781484								
Aviation Consultants of America, Inc. 135 Green Oaks Lane Danville, VA 24540								
8/07/98	Hobbs	2508.7						
CHANGED OIL & FILTER. ADDED 11 QTS Aeroshell 15W50								
OIL. CUT OPEN OIL FILTER. CHECKED FOR CONTAMINATION,								
FOUND SATISFACTORY. PERFORMED DIFF COMP TEST I/A/W								
T.C.M. SB M84-15 #1 ²⁸ #2 ²⁸ #3 ²⁸ #4 ²⁸ #5 ²⁸ #6 ²⁸								
GROUND RAN TO CHECK FOR OIL LEAKS, FOUND SATISFACTORY.								
<i>Chatterton</i>								
A/P 220781484								
Aviation Consultants of America, Inc. 135 Green Oaks Lane Danville, VA 24540								
01/22/98	Hobbs	2416.0						
CHANGED OIL & FILTER. ADDED 11 QTS Aeroshell 15W50								
OIL. CUT OPEN OIL FILTER. CHECKED FOR CONTAMINATION,								
FOUND SATISFACTORY. GROUND RAN. CHECKED ENGINE								
FOR OIL LEAKS, FOUND SATISFACTORY. LUBRICATED								
WASTEGATE BUTTERFLY VALVE. <i>Chatterton</i>								
A/P 220781484								
Aviation Consultants of America, Inc. 135 Green Oaks Lane Danville, VA 24540								
CARRIED FORWARD								
TOTAL THIS PAGE								
TOTAL FROM PREVIOUS SUMMARY								
TOTAL SINCE MFG.								
MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.								

Changed to U.S. Reg.
N340DL

ENGINE SERVICE AND

MAINTENANCE RECORD

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DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD	→				

N340DL (Left Engine log entry)
TCM TSIO520NB s/n 276672-R

connect s/n
276657-R

Inspected engine as required by FAR91.409 per inspection meeting requirements of FAR43 App. D.
Change oil filter (no oil change) Compression #1 76/80 #2 68/80 #3 74/80 #4 70/80 #5 70/80 #6 72/80
Secured wiring as required. Reset unmetred fuel pressures and mixtures.
AD89-24-01R1 eff. 8/10/90 Scavenge oil pump found new style gear installed.
AD93-16-15 eff. 12-14-93 Fuel Pump drive shaft PCW at OVH.
AD95-21-15 eff. 7/10/95 Detonation NA S/N

DATE 6/24/96 Hobbs 2162.7 Engine Total time 1438.8 TTSMVOH 45.0
I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND
WAS DETERMINED TO BE IN AIRWORTHY CONDITION.

ANTHONY R. SAXTON
AP2705607671A

Anthony R. Saxton



OF DEFIANCE
TAS AVIATION, INC.
ROUTE 1, DEFIANCE, OHIO 43512

10/10/96 Hobbs 2258.8 CHANGED OIL & FILTER.
ADDED 12qts Aeroshell 15W50 OIL. CUT OPEN OIL
FILTER CHECKED FOR CONTAMINATION FOUND SATISFACTORY.
PERFORMED DIFF COMP TEST I/A/W T.C.M. SIB M84-15.
#1⁷⁰/₈₀ #2⁷⁵/₈₀ #3⁷⁵/₈₀ #4⁷⁰/₈₀ #5⁷⁵/₈₀ #6⁷⁵/₈₀. CLEANED, GAPPED,
TESTED & ROTATED ALL SPARK PLUGS. GROUND RAN TO
CHECK FOR OIL LEAKS. FOUND SATISFACTORY.
Chiffle Mack Campbell
AEP 220781484.

Aviation Consultants of America, Inc.
135 Green Oaks Lane
Danville, VA 24540

CARRIED FORWARD

TOTAL THIS PAGE
TOTAL FROM
PREVIOUS SUMMARY
TOTAL
SINCE MFG.

REPAIRS, ADJUSTMENTS, MODIFICATIONS
ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.

SIGNATURE

LICENCE
NUMBER

3/13/96 Hobbs 2306.6
CHANGED OIL & FILTER. ADDED 11qts Aeroshell 15W50
OIL. CUT OPEN OIL FILTER. CHECKED FOR CONTAMINATION,
FOUND SATISFACTORY. REPLACED ALL SPARK PLUGS
WITH NEW SPARK PLUGS PIN RH B32E, GAPPED
& TESTED. PERFORMED DIFF COMP TEST I/A/W T.C.M.
SIB M84-15 #1⁷⁰/₈₀ #2⁷⁰/₈₀ #3⁷²/₈₀ #4⁷³/₈₀ #5⁷⁴/₈₀ #6⁷³/₈₀
WASHED ENGINE. GROUND RAN TO CHECK FOR OIL
LEAKS. FOUND SATISFACTORY.

Chiffle Mack Campbell
AEP 220781484

Aviation Consultants of America, Inc.
135 Green Oaks Lane
Danville, VA 24540

6/12/97 Hobbs 2350.5 TOTAL 1626.6 SMOH 232.8
INSPECTED ENGINE I/A/W FAR 43 Appendix D
100 Hour Inspection. CHANGED OIL & FILTER. ADDED 11qts
Aeroshell 15W50 OIL. CUT OPEN OIL FILTER & CHECKED
FOR CONTAMINATION. FOUND SATISFACTORY. CLEANED
GAPPED & TESTED ALL SPARK PLUGS. CHECKED IGNITION
HARNASS CHECKED MAGNETO TIMING. CHECKED INDUCTION
AIR FILTER. PERFORMED DIFF COMP TEST #1⁷³/₈₀ #2⁷⁴/₈₀ #3⁷⁵/₈₀
#4⁷⁴/₈₀ #5⁷³/₈₀ #6⁷⁴/₈₀ I/A/W T.C.M. SIB M84-15.
LUBED & CHECKED ENGINE CONTROLS. WASHED ENGINE.
CHECKED EXHAUST & INDUCTION SYSTEM FOR LEAKS.
GROUND RAN. CHECKED ENGINE FOR FUEL & OIL
LEAKS. FOUND SATISFACTORY.

DATE 6/12/97 TACH 2350 TOTAL 1626.6 SMOH 232.8

Aviation Consultants of America, Inc.
135 Green Oaks Lane
Danville, VA 24540

I certify that this ENGINE
has been inspected in
accordance with an 100 Hour
inspection and was determined
to be in an airworthy condition.

Chiffle Mack Campbell
AEP 220781484

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

ENGINE SERVICE AND

MAINTENANCE RECORD

3

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE
	HRS.	MIN.	HRS.	MIN.	
DEC 28/95			00		Engine installed L/H position of C-GMOT original reworked exhaust transition installed
CASCT 1985.4					- overhauled prop governor installed - overhauled turbocharger installed
JAN. 8/96	16.0		16.0		OIL + FILTER CHANGED, WEAR CHECK OIL SAMPLE PHILLIPS 20W-50 TYPE "M" OIL ADDED. MAX. RPM ADJ. FOR RED LINE RPM AT T.O., ADJ. FOR RED LINE M.P. AT T.O., IDLE MIXTURE ADJ. TO S/M. SPEC'S, AND OIL PRESS. ADJ. FOR GREEN ARC INDICATION IN CRUISE.
MAR. 7/96	15.0		31.0		4. V.A.P.C S/N.# OAR0144 REPAIRED RE-SECURED, ADJ. FOR RED LINE M.P. AT T.O. POWER AND LEAK CHECKED - SATISFACTORY
MAR. 28/96	5.8		36.8		
APR 12 1996			36.8		100 HR / ANNUAL INSPECTION CARRIED OUT IN ACCORDANCE WITH TRANSPORT CANADA AWM571-101(a) APPENDIX A METERING UNIT SCREEN CLEANED, BRACKETT AIR FILTER BA-109 INSTALLED, AIR/OIL SEPARATOR CLEANED.
					CARRIED FORWARD
TOTAL THIS PAGE					
TOTAL FROM PREVIOUS SUMMARY					
TOTAL SINCE MFG.					

REPAIRS, ADJUSTMENTS, MODIFICATIONS ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.	SIGNATURE	LICENCE NUMBER
@ 1985.4 hrs TTAF	De Ruy	1314873
S/N ON 880037 S/N OFF ? S/N ON MTRO200	De Ruy	1314873
TAKEN		
AVIATION UNLIMITED MAINTENANCE TRANSPORT CANADA AMO No. 65-94	"The maintenance described has been performed in accordance with the applicable standards of airworthiness."	1113519
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MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

ENGINE SERVICE AND

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE
	HRS.	MIN.	HRS.	MIN.	

BROU
FORW.AD NOTES AND SERVICE BULLETINS COMPLIED WITH AT TIME OF ENGINE ~~RE-BUILD~~
overhaul

S.B.-M67-23

S.B.-M90-17

S.B.-M75-27

S.B.-M76-4

S.B.-M86-13

S.B.-M87-7

S.B.-M89-27

S.B.-M91-9

M.S.B.-M92-6

S.B.-M92-15

S.B.-M93-5

A.D.-79-05-05

A.D.-87-23-08

A.D.-93-16-15

S.B.-M78-12

S.B.-M69-7

S.B.-M72-13

S.B.-M67-21

S.B.-M71-17

S.B.-M73-21

S.B.-M81-27

S.B.-M85-18

S.B.-M85-8

S.L.-84-002

S.L.-86-004

S.B.-M90-13

A.D.-86-13-04 R3

S.B.-M91-6

S.B.-M91-7

S.B.-M87-19

S.B.-M76-24

S.B.-M92-6

THIS ENGINE WAS OVERHAULED ACCORDING
TO MANUFACTURER'S MANUAL AND MUST BE
OPERATED IN STRICT ACCORDANCE WITH
ORIGINAL ENGINE MANUFACTURER'S OPERA-
TIONS MANUAL.

ENGINE TEST RUN PER MANUFAC-
TURES SPECIFICATION FOR 15 HRS.
ON 9-19-95 BY W. STATH ENGINE
CO. INC.

IN SOME INSTANCES P.M.A. PARTS
ARE USED OTHER THAN THE ORIGINAL
MANUFACTURER'S.

THIS ENGINE HAS BEEN INSPECTED
AND FOUND TO MEET THE AIRWORTHY-
NESS REQUIREMENTS FOR EXPORT.

P.M.A. PARTS MEET F.A.A.
SPECIFICATIONS.

SIGNED 868
F.A.A. OFFICE GLO5
DATE 11/30/95

CARRIED FORWARD

TOTAL THIS PAGE

TOTAL FROM
PREVIOUS SUMMARYTOTAL
SINCE MFG.ENGINE EQUIPPED WITH DOUBLE EAGLE
FREEDOM CERMISTEEL CYLINDERS

The United States of America
Department of Transportation
Federal Aviation Administration
Washington, D.C.

No. E295076

Export Certificate of Airworthiness

This certifies that the product identified below and more particularly described in Specification (s)¹ of the Federal Aviation Administration, Numbered E8CE has been examined and as of the date of this certificate, is considered airworthy in accordance with a comprehensive and detailed airworthiness code of the United States Government, and is in compliance with these special requirements of the importing country filed with the United States Government, except as noted below. This certificate in no way attests to compliance with any agreements or contracts between the vendor and purchaser, nor does it constitute authority to operate an aircraft.

Product: ENGINE

Manufacturer: CONTINENTAL

Model: TS10-520-NB

Serial No.: 276657-R

New ☐ Newly Overhauled ☒Used Aircraft ☐

Country to which exported: CANADA

Exceptions: NONE



S.P. FASKE

Signature of Authorized Representative

11/30/95
Date

GLO5

District Office or Designee Number

¹ For complete aircraft, list applicable specification or Type Certificate Data Sheet numbers for the aircraft, engine, and propeller. Applicable specifications or Type Certificate Data Sheet, if not attached to this export certificate, will have been forwarded to the appropriate governmental office of the importing country.



Model TS10-520-NB

Serial 276657-R

W.O. E4798

Date 9-18-95

Limited Warranty

It is expressly agreed that we, warrant re-built engines and accessories (except those accessories being re-built or purchased from another vendor who has warranted said accessory and whose warranty will be passed through to the purchaser and be the only warranty on such accessory) to be free from defects in material and workmanship, under normal use and service, for 240 hours of operation or 180 days from date of sale, whichever ever occurs first, in accordance with the following conditions:

1. T. W. SMITH ENGINE CO., INC. reserves the right to repair or replace, or to authorize repair or replacement, any items which fail due to defect in material or workmanship, and further provided that the engine has been operated under normal use and service, according to aircraft operation manual, unless otherwise specified.
2. T. W. SMITH ENGINE CO., INC. is notified before any repairs are performed.
3. T. W. SMITH ENGINE CO., INC. shall have the option to furnish any parts or accessories required, and provided further that defective parts or accessories are promptly returned to T. W. SMITH ENGINE CO., INC. freight prepaid.
4. All repairs are performed on a standard charge basis and not on an overtime basis, that the cost of all charges must be agreed upon prior to any warranty work being accomplished. All labor charges paid on flat rate labor schedule furnished by manufacturer.
5. Provided this engine was installed by a Federal Aviation Administration certified mechanic or repair station.
6. That the owner has available and has read the aircraft flight manual for said engine and T. W. SMITH ENGINE CO., INC. reserves the right to deny any warranty claim if it reasonably determines that the engine or part thereof has been subjected to accident or used, adjusted, altered, handled, maintained or stored other than as directed in said owners manual.

This engine is further warranted on a prorated basis except that no labor allowance will exist after the period of 240 hours of operation or 180 days from the date of sale and said further prorated basis shall be subject to the provisions herein. The engine proration is based on the ratio of hours logged or at the rate of 40 hours per month, whichever is greatest, over the TBO of the engine. No other express warranty and no affirmation of the seller, its agent, employee, or representative, by words or actions shall constitute a warranty, unless specifically included within this written agreement.

THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES AND REPRESENTATIONS, EXPRESS OR IMPLIED OR STATUTORY, WHETHER ORAL OR WRITTEN, INCLUDING BUT NOT LIMITED TO ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE, AND ANY IMPLIED WARRANTY ARISING FROM ANY COURSE OR PERFORMANCE OR DEALING OR TRADE USAGE. THIS WARRANTY IS ALSO IN LIEU OF ANY OTHER OBLIGATION, LIABILITY, RIGHT OR 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 T. W. SMITH ENGINE CO., INC. AND T. W. SMITH ENGINE CO., INC.'S LIABILITY ON SUCH CLAIM SHALL IN NO CASE EXCEED THE PRICE ALLOCABLE TO THE ENGINE OR PART WHICH GIVES RISE TO THE CLAIM.

LIMITATION OF LIABILITY

IN NO EVENT, WHETHER AS A RESULT OF A BREACH OF WARRANTY, CONTRACT OR ALLEGED NEGLIGENCE, SHALL T. W. SMITH ENGINE CO., INC. BE LIABLE FOR SPECIAL OR CONSEQUENTIAL OR OTHER DAMAGES, INCLUDING BUT NOT LIMITED TO LOSS OR PROFITS OR REVENUES, LOSS OF USE OF THE ENGINE OR COST OF A REPLACEMENT, DAMAGES AND PERSONAL INJURIES OR ANY OTHER COST INCURRED SAVE AND EXCEPT THOSE EXPRESSLY IN WRITING AGREED TO BY T. W. SMITH ENGINE CO., INC.

This warranty setting forth T. W. Smith Engine Company's obligations shall not be varied in any way unless such variance is in writing and signed by a duly authorized officer of T. W. Smith Engine Co., Inc. or its duly authorized representative.



9/1/91

T. W. SMITH ENGINE CO., INC.
HANGAR #1 • LUNKEN AIRPORT • CINCINNATI, OHIO 45226

MAINTENANCE RELEASE

The aircraft and/or component identified above was overhauled and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service.

Pertinent details of the repair are on file at this agency. CERTIFIED REPAIR STATION
No. CB1R054K

Work Order No. E4798 Date: 9-21-95

Model: TS10-520-NB Serial No. 276657-R

Date Re-built 9-14-95

Total Accumulated Time 1393.8 HOURS

Signed: [Signature]

The above listed component has been overhauled and inspected, and test run as prescribed by manufacturer's specifications. All steel parts magnafluxed and non-ferric parts zyglod. No further run-in of the installation is required. List of manufacturer's bulletin and AD Notes complied with, recorded in back of logbook.