

ENGINE DATA

1. Make CONTINENTAL
2. Model IO-520-D
3. Specification ESCE
4. Manufacturer's Serial Number 572558
5. Date of Manufacture _____
6. Aircraft Inspection Cycle CAR 625 APP B @ 12 months

Section 3A: Engine Service and Maintenance Log

DATE	TIME RUN		TIME SINCE OVERHAUL		CYCLES	
	HOURS	MIN	HOURS	MIN	Sub Total	TOTAL
June 128/11						
June 28/11	201	5				
June 28/11	201	5				

INSTALLATIONS, INSPECTIONS

Times TRANSCRIBED FOR ANNUAL 1200hr INSPECTION TOMSTONE DATA

U.S. Logs 201.5 TSO CARRIED OUT FOR IMPORT INTO CANADA

SIGNATURE
AME of AMO/ACA
M314319
M314319

AIRWORTHINESS DIRECTIVE / FACTORY BULLETIN COMPLIANCE RECORD

BOLDUC AVIATION SPECIALIZED SERVICES, INC.
Continental & Lycoming Performance Parts Ltd

WORK ORDER: 1088 CUSTOMER: Auto Bells
DATE: 02/02/11 MODEL: D2000 S/N: 572558

QTY	PART #	DESCRIPTION	QTY	PART #	DESCRIPTION
1	844045-A1	Cylinder Set	1	844151	Crankshaft, VAR
1	841290	Val. Comp	1	844297-1	Oil Press. Kit
1	84001-A1	Power. Pist. Mech	1	844330-A1	Oil Press. Kit
12	830028	Ignition. Pist	12	845554-1	Val. Lobe
1	830040	Val. Rod	1	830647-31-19	Val. Lobe
12	831139	Val. Rod	1	844810	Flts. Oil
12	AA4231-26-10	Coiler Key	2	830645	Choke
8	830651	Swash. Rod	1	C18-1185-B	Magnets
8	824489	Lifter			
8	842777	Lifter			
8	831478-018	Piv. Pinion			
8	8300-SCM019	Piv. Pinion			
8	83048	Piv. Pinion			
8	842873	Valve, Exhaust			
8	830699	Valve, Intake			
8	84370795	Clash. Lever			
8	84370995	Clash. Lever			
24	83180	Shank, Lever			
24	830128	Shank, Rocker			
12	830684	Choke, Disc			
12	830687	Washer, Rocker			
12	M52-12904-15	Helicoil			
12	M52-12907-12	Rod, Rocker			
8	83217-1	Rod, Cap			
8	84005	Shank, Valve			
8	84006	Shank, Valve			
12	84441	Spring, Valve			
12	84442	Spring, Valve			
1	834150	Spring, Oil Press			
1	830053	Down, Crank			
1	830024015	Clutch, Starter			
1	813041	Bearing, Starter			
1	830095	Bearing, Starter			
1	841389	Bearing, Starter			
1	837721	Bearing, Starter			
4	838172	Coupling, Mag			
12	848532	Spark Plugs			

INSPECTION & MAINTENANCE RECORD

DATE: 04/18/01 TOTAL TIME: 16598

WVO: 10-520-D S/N: 572558

Tech: 1238

Signature: [Signature]

AME of AMO/ACA: M314319

9-30-01 1757-5 Change Oil + Filter Avco Shell 100 Extra

DATE	HOURS	MIN	HOURS	MIN	CYCLES
Jul 29/12	88	9	290	4	
Jul 29/12	88	9	290	4	
Mar 4/13			290	4	
Mar 4/13			0.0		

ANNUAL INSPECTION CARRIED OUT IAW INSPECTION CHECK SHEETS. COMPRESSION #5 74/80, #6 68/80

#1 CYL HEAD FOUND CRACKED ON BORESCOPE INSPECTION

ENGINE 10520-D S/N 572558 REMOVED SENT TO VICTOR AVIATION, THEN OVERHAULED UNDER RO# 16756. VICTOR PERFORMED MAJOR OVERHAUL USING NEW TITAN ECI CYLINDERS. MAGNETS, STARTER AND FUEL INJECTION SYSTEM WERE OVERHAULED.

ENGINE REINSTALLED. ANNUAL INSPECTION CARRIED OUT IAW CAR 625 APP B+C USING CESSNA D2000-9-13 RW5 50hr, 100hr, 200hr + SI INSPECTION CHECKSHEETS.

CAR 625 APPENDIX B+C USING CESSNA D2000-9-13 RW5 C/W #1 72/80, #2 71/80, #3 70/80, #4 78/80

TRANScribed

SIGNATURE
AME of AMO/ACA
M314319
M314319
M314319

TOTALS SINCE NEW

CARRY FORWARD to Top of Next Page

Section 3A: Engine Service and Maintenance Log

DATE	TIME RUN		TIME SINCE OVERHAUL		CYCLES	
	HOURS	MIN	HOURS	MIN	Sub Total	TOTAL
07/07/2017			49	9		
July 7, 2017	12	9	62	8		
BROUGHT FORWARD						
CARRY FORWARD to Top of Next Page						

INSTALLATIONS, INSPECTIONS
 - IN RESPECT OF ITEMS 1, 5, 6, 7 & 18 -
 THE MAINTENANCE COMPLETED ON JULY 7, 2017
 BY MOUNTAINEIRE SERVICES LTD AMO/30-91 WAS
 RECORDED IN THE JOURNEY LOG THIS DATE
 AND THE IMAGE OF THIS ENTRY HAS BEEN
 COPIED TO THIS ENGINE TECH LOG TO
 MEET THE REQUIREMENTS OF CAR'S
 605.92, 605.93 & 605.96 *Serial M422474*

Mountainaire Services Ltd. C GETR July 7, 2017 2091.4
 2070.5 Hrs. TTAF MAS W/O 5057

NAME/SIGNATURE: _____ LICENCE: AME or AMO/ACA

- 100 hour/annual inspection carried out in accordance with CAR 625 Appendix "B" and "C" using Cessna D2000-9-13 Rev 5 Series Inspection Check sheets as a guide.
- Aerocet 3400 Amphibious floats inspected IAW Aerocet A-0031 service manual and check sheets.
- R/H nose gear actuator in float leaking hydraulic fluid. New "O" ring installed in actuator in accordance with Aerocet MM.
- Gear cycled and emergency hand pump checked. All gear functions normally.
- Note: Log entry of May 8, 2013 "Aerocet Gear Advisory System audio interface connections not completed." Gear advisory system checked and found to be still not connected at this time.**
- Oil changed: Aeroshell W15W50 oil.
- Oil filter replaced with new AA48110-2 filter. Old filter cut open and inspected for contamination. None found.
- Differential pressure test carried out. #1=78/80, #2=79/80, #3=78/80, #4=73/80, #5=79/80, #6=79/80.
- New air filter element P/N BA-8103-1 installed.
- New instrument filter P/N AAD9-18-1 installed.
- Cowl flap hinges worn/loose Replaced with new P/N MC0752014-15.
- L/H and R/H aileron rod ends replaced with new P/N MCS1106-3. Aileron cable tension and rigging checked. Rod ends rigged per Cessna 185 MM.
- D&M ELT6 S/N 39493 recertified per Appendix "G" of Chapter 571 of the CAR's by Inland Communications per tracking No. 11087. Battery due May 2018. Reinstalled, armed and tested.
- Transponder, encoder and altimeter removed for recertification by Inland Communications per tracking
 - Bendix/King transponder KT76A, S/N 2696 was tested per the manufacturers maintenance manual and Appendix "F"(a-d) of Chapter 571 of the CAR's
 - Aeronic Encoding Altimeter P/N 101627-01344, S/N C110159 was tested Appendix "B" of Chapter 571 of the CAR's
 - The Altitude Encoder portion of the altimeter tested per Appendix "F"(k) of Chapter 571 of the CAR's
 - United 20K Altimeter S/N T1722 was tested as per Appendix "B" of Chapter 571 of the CAR's
 - Static system checked for leaks per Appendix "B" (a) (4)(i) of Chapter 571 of the CAR's. Numerous leaks in both static and pitot systems repaired, retested and found to be within limits
 - Transponder/encoder systems ramp checked by Inland Communications and found to be serviceable.

Mountainaire Services Ltd. C GETR July 7, 2017 2091.4
 2070.5 Hrs. TTAF MAS W/O 5057

NAME/SIGNATURE: _____ LICENCE: AME or AMO/ACA

14. Fire extinguisher inspected and is serviceable.
15. Mechanical tach check carried out in accordance with Part IV, Standard 625 Appendix C of the CAR's. Tach found to be within tolerance.
16. Compass swing carried out. New compass card installed.
17. AWD's complied with:
 - 2011-10-09 (CF-87-15R2) Seat and seat rails inspected. No defects found. Inspection due again in 100 hrs. or 12 months.
 - 90-3R2 (Part 1) Exhaust heater inspection carried out. No defects found. Due again in 150 hrs. or 1 year.
 - 96-12-22 Cessna engine oil filter adapter assembly inspection CAW. No defects found. Inspection is due again every time oil filter is replaced.
18. Engine run up, vacuum system adjusted to 5" HG. All engine functions normal.

For	N	030	060	E	120	150
Steer	000	031	062	094	122	151
For	S	210	240	W	300	330
Steer	180	211	243	274	302	331

I HAVE CONDUCTED AN INSPECTION FOR CONFORMANCE TO THE CONTROLS THAT WERE AFFECTED BY THE WORK ACCOMPLISHED. AILERON ROD ENDS

"THE SYSTEM HAS BEEN INSPECTED FOR CORRECT ASSEMBLY AND CORRECT LOCKING OF ANY PARTS DISTURBED BY THE MAINTENANCE PERFORMED, INCLUDING AN OPERATIONAL CHECK FOR PROPER SENSE AND RANGE OF MOTION"
 REF: CAR STD 571.10 (TYPES OF WORK)

SIGNATURE: *Stephen Chy* DATE: *July 07 2017*
 ACA#: *ACA 103*

The Maintenance described above has been performed in accordance with the applicable standards of airworthiness subject to satisfactory test flight.

[Signature] AMO/30-91

Section 3A: Engine Service and Maintenance Log

INSTALLATIONS, INSPECTIONS

DATE	TIME RUN		TIME SINCE OVERHAUL		CYCLES	
	HOURS	MIN	HOURS	MIN	Sub Total	TOTAL
04/09/21						
4-9-2021						
3/23/2022						

TACH TIME: 2145.5 HOURS, TSMOH: 116.9 HOURS
 INSPECTED INSTALLATION OF SUREFLY 52M6C,
 SN 2620022 INSTALLED IN THE LEFT MAGNETO
 POSITION. SEE FAA FORM 337 THIS DATE. INSTALLED
 SUREFLY PC17V POWER CONDITIONER TO ELIMINATE
 NOISE SPIKES FROM THE SIM INPUT POWER THAT MAY
 TRIP THE SIM'S INTERNAL OVERVOLTAGE PROTECTION,
 CAUSING A SYSTEM RESET USING 28 VOLT SYSTEM'S
 MOUNTED THE PC17V AMP CAPACITOR ON FORWARD
 SIDE OF REAR ENGINE BAFLE, RIGHT SIDE.
 SERVICE INSTRUCTION SI-920 WAS USED AS
 GUIDANCE DURING INSTALLATION. AIRCRAFT
 AND ENGINE RETURNED TO SERVICE FOLLOWING
 SATISFACTORY GROUND CHECK.

[Signature] AP1674069 IA

TACH TIME: 2170.5 TSMOH: 141.9
 INSPECTED ENGINE AND LUBED ALL CONTROLS. CLEANED
 FUEL SCREEN. CHANGED OIL AND FILTER. SERVICED ENGINE
 WITH 10 QTS AEROSHELL W100 PLUS AND INSTALLED NEW
 TEMPEST 4811D-2 FILTER. CHECKED COMPRESSIONS:
 1-79, 2-76, 3-79, 4-76, 5-78, 6-78
 COMPLIED WITH AD 96-12-22 BY INSPECTION OF OIL FILTER ASSEMBLY
 VERIFYING TORQUE ON NUT.
 I CERTIFY THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE
 WITH A 100 HR INSPECTION AND WAS FOUND TO BE IN AIRWORTHY
 CONDITION.

[Signature] AP2715379 IA

CARRY FORWARD to Top of Next Page

NAME/
SIGNATURE

LICENCE:
AME or
AMO/ACA

04-01-2023 TACH TIME: 2180.6 HOURS
 TSMOH: 152.0 HOURS
 REMOVED COWLINGS, INSPECTED
 GENERAL CONDITION OF ENGINE.
 LUBED CONTROLS, CHECKED TIMING,
 CHECKED COMPRESSIONS, #1 77/80,
 #2 78/80, #3 80/80, #4 78/80, #5 78/80, #6 78/80.
 CHANGED OIL & FILTER, SERVICED ENGINE
 WITH 10 QTS AEROSHELL W100 PLUS. COM-
 PLIED WITH AD 96-12-22 BY CHECKING
 TORQUE ON OIL FILTER HOUSING.
 CHECKED NEW AD 23-05-16, N/A THIS
 ENGINE BY MODEL #, SN, OR DATE
 OF INSTALLATION. SEE AD LISTING
 FOR OTHER RPS. I CERTIFY THIS
 ENGINE WAS INSPECTED IN
 WITH A 100 HOUR INSPECTION AND
 WAS FOUND TO BE IN AIRWORTHY
 CONDITION.

[Signature] AP1674069 IA

Date: 4-22-2023 Reg #: N185EJ Tach: 2185.8

Complied with TCM SID-05-1B and Replaced all engine valve
 lifters p/n's SA628488 and SA647277. New Pushrod seals p/n
 SA534610. Replaced oil filter AA48108-2. Run-up and leak
 check good.

[Signature]
 Robert Timm, A&P2699420

Seaplane Services
SURFSIDE SEAPLANE BASE
 LONG LAKE, MINNESOTA
 651-792-4703

8/18/2023 Tach 2218.9 Adjust fuel pressures and mixture
 per TCM bulletin *[Signature]* AP3494110

Section 3A: Engine Service and Maintenance Log

DATE	TIME RUN		TIME SINCE OVERHAUL		CYCLES		INSTALLATIONS, INSPECTIONS
	HOURS	MIN	HOURS	MIN	Sub Total	TOTAL	
9/18/2023	Tach	2231.7	Change oil and filter	Fill sump with 10 qts Amshell 15W50	Filter #3494110		
1/3/2024	Tach	2257.9	Change oil and filter	Fill sump with 12 qts Amshell 15W50	Filter #3494110		

07/16/2024 N185EJ A188F
 S/N 18504005 Tach Time:2269.2 Total Time:2269.2
 Engine: TCM IO-520-D S/N 572558 TSMOH: 240.6
 Propeller: McCauley D3A34C401-C S/N 101052 TSN: 166.1

Completed annual inspection this date using 14CFR43 appendix D as guide. Performed compression check #1 78/80 #2 72/80 #3 76/80 #4 78/80 #5 78/80 #6 78/80. Drained oil and removed filter cut open filter and found ok installed new filter AA48110-2 torqued and safetied to spec. Serviced engine with 12 qts Phillips 20W50 oil. 1 camgaud. Checked mag timing found ok removed sparkplugs cleaned, gapped, rotated and reinstalled. Cleaned airfilter. Removed flow divider and nozzles also removed Throttle body for repair by Central Cylinder Service WO#22234 installed leak checked found ok checked fuel pressures found ok. Inspected exhaust system found ok. Complied with applicable ICA's. Test ran engine found ok. I certify that this engine had been inspected in accordance with an annual inspection and was found to be in airworthy condition.

Eugene L Jedlicka 3060327AP/IA

AUTOPILOTS CENTRAL INC.
 Hangar 23, Tulsa International Airport-Tulsa, OK 74115
 (918)836-6418

Date: 8/20/2024; Aircraft: N185EJ
 N185EJ 185F s/n: 18504005 Hobbs: 2285.9
 MA24-07393 Date: 08/20/2024
 Discrepancy: 1
 Remove engine driven fuel pump for overhaul.
 Removed and reinstalled repaired fuel pump. Operational check OK.

Description: 638154-1 S/N: B177921B
 Work Performed: Overhauled reference manual AAO1000, SB: C/W 00-10.
 Performed By: Aircraft Accessories Of Oklahoma, Inc.
 Discrepancy: 2
 Replace crankshaft seal
 Removed old crankshaft seal and installed new crankshaft seal.
 Discrepancy: 3
 Replace vernathern.
 Removed and replaced with new vernathern.
 Discrepancy: 4
 Aircraft flight is due to check engine driven fuel pump pressures.
 Flew a/c on Aug. 14th to check engine driven fuel pump pressures. Fuel pressure was above limits at full power. Also noticed the aircraft is right wing heavy with the ball centered. Your rudder trim system is worn out of limits. Need to top off fuel and fly in the morning with no wind. Adjusted high end fuel pressure to 26.3 as per SID-97-3 (reference).
 Operational check OK.
 Discrepancy: 5
 Aircraft has been topped off with fuel. Need to fly and check if the a/c is flying level.
 Flew a/c with topped off fuel and the aircraft still rolls to the right. Gained access to the right wing rear spar eccentric bushing. Adjusted the right wing trailing edge lower to increase the wing angle of incidence. Flew a/c a second time and the roll to the right has been cut in half. Adjusted the left wing eccentric. The eccentric was adjusted 80% down. Adjusted to the 100% down. Flown a/c a second time with no change in the slight roll to the right.
 Discrepancy: 6

10/4/2024
 TACH: 23620.4

REMOVED ALTERNATOR. INSTALLED OVERHAULED ALTERNATOR DOFF14340B (S/N: H-1082150). OPERATIONAL CHECK / SATISFACTORY.

[Signature]
 AIP3783329

Cessna A185F, N185EJ, S/N 18504005, Date 03/15/2025, tach time 2448.7
 Performed oil change, drained oil and replaced with 11qts Phillips 20W50 and Camgaud additive. Cut oil filter open, no metal. Installed filter AA48110-2. Ground run engine and operational check, no leaks. Return aircraft to service for work performed.

[Signature]
 A&P 3318001 JEREMIAH JOHNSON

Engine Continental IO-520-D, S/N 572558, Date 05/23/2025, Tach 2470.2, TTE 2470.2, TSMOH 441.6
 Engine was inspected during an aircraft annual. Engine was inspected IAW manufacturer maintenance requirements. Cleaned and gapped Spark plugs, installed with new copper rings. Verified Mag timing 22°, performed fuel system check, verified fuel pump settings. Replaced Alt drive belt p/n MCS2416-1-31.0. Drained oil and inspected filter, no findings. Installed oil filter AA48108-2 and 11qts Phillips X/C 20W-50. Compression check 72-69-68-72-70-70/80. Ground run, no leaks. I have inspected this engine IAW a 100 Hr. inspection and determined it to be in an airworthy condition.

[Signature]
 AP 3318001 JEREMIAH JOHNSON

INSPECTION - MAINTENANCE - REPAIRS - ALTERATIONS

TYPE TCM IO-520-D	DATE 23 May 2025
REG. N185EJ	W.O.# 20250523
S/N 572558	T.T. 2470.2
HOBBS N/A	TACH 2470.2
TSMOH 441.6	

RED MAN AVIATION
 8605 South Elmwood Ave
 Hangar B92
 Tulsa, OK
 918-289-8714

Performed Annual Inspection IAW 14 CFR 43 Appendix D, Cessna 185 Series Service Manual, and TCM IO-520 Maintenance Manual. AD's checked through T-Data 2025-10. AD's with recurring due dates noted on AD list provided to owner. I certify this engine has been inspected IAW 14 CFR 43 Appendix D Annual Inspection requirements and has been found to be in an airworthy condition. This engine is approved for return to service.

Shannon G Hankins AP372446IA 05/23/25
[Signature]