

AIRCRAFT TECHNICAL RECORD

Section 3. ENGINE LOG

ENGINE DATA

1. Make TELEDYNE CONTINENTAL
 2. Model 10-520-BB
 3. Specification _____
 4. Manufacturer's Serial Number 813777-R
 5. Date of Manufacture 08/20/97
- _____
- _____
- _____



Section 3A: Engine Service and Maintenance Log

DATE / /	TIME RUN		TIME SINCE OVERHAUL		CYCLES		DESCRIPTION OF WORK PERFORMED: (INSPECTION, REPAIRS, REPLACEMENT)
	HOURS	min	HOURS	min	Sub Total	TOTAL	
BROUGHT FORWARD							

Registration	N8091T	ALPINE AVIATION	Date	October 5, 2021
Make	TCM		Tach	3111.1
Model	IO-520-BB		SMOH	407.3
Serial No.	813777-R	13310 Nevada City Ave.	TT Engine	2280.9
Invoice No.	21-11926	Grass Valley, CA 95945		
	CRS# XGKR718T	(530) 477-7701		

Description of Inspections, Tests, Repairs, and Alterations.

- 1 Removed starter adapter part number 642087A51
- 2 Installed overhauled Starter Adapter, pn 642087A69, sn CAM21-133 by Canadian Aero manufacturing
- 3 C/W TCM SB16-6, Engine Damage due to Kickback, Par III.
- 4 TCM CSB02-2, Starter Adapter Shaft Seal terminated due to new part number Starter adapter installed.
- 5 C/W TCM CSB05-8D, Camshaft gear part number, by inspection, found airworthy.

This aircraft, airframe, aircraft engine, propeller, or appliance identified above was repaired and inspected in accordance with FAA regulation and is approved for return to service.

Signature 

CRS# XGKR718T

Registration	N8091T	ALPINE AVIATION	Date	December 1, 2021
Make	TCM		Tach	3138.6
Model	IO-520-BB		SMOH	434.8
Serial No.	813777-R	13310 Nevada City Ave.	TT Engine	2308.4
Invoice No.	21-12032	Grass Valley, CA 95945		
	CRS# XGKR718T	(530) 477-7701		

Description of Inspections, Tests, Repairs, and Alterations.

- 1 Performed 50 hour inspection IAW Alpine Aviation 50 hour inspection checklist.
- 2 Drained oil, removed oil filter and sampled oil for analysis.
- 3 Inspected oil filter for contaminants, none found, and installed new oil filter p/n CH48109-1.
- 4 Serviced engine with 10 quarts Phillips X/C 20W-50 engine oil.
- 5 C/W Continental SB95-7A Manifold Valve Cover Inspection. Next due 3088.8
- 6 C/W Continental CSB07-01A . Next due 3088.9

This aircraft, airframe, aircraft engine, propeller, or appliance identified above was repaired and inspected in accordance with FAA regulation and is approved for return to service.

Signature 

CRS# XGKR718T

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TOTALS

PREVIOUS
TOTALS

TOTALS
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Registration	N8091T		Date	April 7, 2022
Make	Continental		Tach	3188.5
Model	IO-520-BB		SMOH	484.7
Serial No.	813777-R		TT Engine	2358.3
Invoice No.	22-1365			

13310 Nevada City Ave.
 Grass Valley, CA 95945
 (530) 477-7701
 CRS# XGKR718T

Description of Inspections, Tests, Repairs, and Alterations.

- 1 Performed an Annual Inspection IAW Beech 100 hour Inspection check list Rev C11.
- 2 Serviced Engine IAW Continental Publication M-0 Rev 1, Change 2, Aug 2021 (50, 100, & 500 hr. items).
- 3 Performed cylinder compression test, Cyl #1-67/80, #2-52/80, #3-65/80, #4-65/80, #5-64/80, #6-71/80
- 4 Drained engine oil, collected oil sample for analysis.
- 5 Removed oil filter and inspected for contaminants, none found.
- 6 Installed new oil filter p/n CH48109-1 and serviced engine with 10 quarts Phillips X/C 20W-50 engine oil.
- 7 C/W SB 95-7A Manifold Valve Cover Inspection. Next due 3238.5 tach.
- 8 C/W SB 15-5 Magneto Timing Drift. Installed Mags after 500 hr. Insp. Next due 3288.5 tach.
- 9 C/W CSB 07-01A Connecting Rod Piston Pin Bushing Insp. Next due 3238.5 tach.
- 10 C/W CSB 08-3C Throttle & Mixture Control Lever Inspection. Next due 3288.5 tach.
- 11 C/W SB 94-8D Magneto to Engine Timing. Adjusted to spec after 500 hr. Insp. Next due 3288.5 tach.
- 12 C/W SB 09-14 Crankshaft Corrosion Inspection. Next due 3288.5 tach.
- 13 C/W Magneto 500 hour Inspection IAW Champion 4300/6300 Series MM No. L-1363J, Apr 2021.

I certify that this Engine has been inspected in accordance with an Annual Inspection and found to be in airworthy condition.

Signature



CRS# XGKR718T

Registration	N8091T		Date	August 8, 2022
Make	Continental		Tach	3238.6
Model	IO-520-BB		SMOH	534.8
Serial No.	813777-R		TT Engine	2408.4
Invoice No.	22-1660			

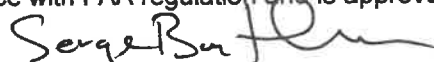
13310 Nevada City Ave.
 Grass Valley, CA 95945
 (530) 477-7701
 CRS# XGKR718T

Description of Inspections, Tests, Repairs, and Alterations.

- 1 Performed 50 hour inspection IAW Alpine Aviation 50 hour inspection checklist.
- 2 Drained oil, removed oil filter and sampled oil for analysis.
- 3 Inspected oil filter for contaminants, none found, and installed new oil filter p/n CH48109-1.
- 4 Serviced engine with 10 quarts Phillips X/C 20W-50 engine oil.
- 5 C/W Continental SB95-7A Manifold Valve Cover Inspection by visual inspection. Next due 3288.6 tach.
- 6 C/W Continental CSB07-01A Con Rod Bushing Material Inspection IAW Par. II. Next due 3288.6 tach.

This aircraft, airframe, aircraft engine, propeller, or appliance identified above was repaired and inspected in accordance with FAA regulation and is approved for return to service.

Signature



CRS# XGKR718T

Section 3A: Engine Service and Maintenance Log

DATE / /	TIME RUN		TIME SINCE OVERHAUL		CYCLES		DESCRIPTION OF WORK PERFORMED: (INSPECTION, REPAIRS, REPLACEMENT)
	HOURS	min	HOURS	min	Sub Total	TOTAL	
BROUGHT FORWARD							

ENGINE MODEL: **Scanlon Aviation**
 IO-520-BB (21)
 ENGINE S/N: 813777-R
 REG. NO: 8091T
 WORK ORDER:
 2460-03-2023

451 Airport Road
 Novato, CA 94945
 Phone: 415-897-9787

DATE: 20 March, 2023
 A/C TSN: 3292.1
 ENG TT: 2461.9
 TSMOH: 588.3
 TACH: 3292.1

Engine Entries

(2) Performed annual inspection of engine per FAR 43 appendix D checklist. Compression checked Base Line 48/80, #1 64/80, #2 46/80, #3 65/80, #4 64/80, #5 60/80, #6 70/80. Oil drained and Blackstone oil sample taken. Filter removed and cut open, no metal found. Installed new filter and safetied. Serviced engine with 9 Qts. of Phillips X/C 20W50. Engine spark plugs removed, cleaned, visually inspected, tested and rotated. Magneto timing checked and with intolerance. Checked and cleaned fuel injection servo inlet screen. No discrepancies noted. Fuel system leak checked. Exhaust system pressurized, no leaks noted. Engine air filter cleaned and visually inspected. No discrepancies noted. Airworthiness directives check thru ATP Rev. 3/20/2023.... (6) A.D. 2023-05-16 eff. 3/15/2023 To Prevent Departure of Counterweight and Retaining Hardware from the Crankshaft Assembly not applicable due to engine serial number listed in MSB23-01A.... (7) A.D. 2023-04-08 eff. 02/23/2023 To Prevent Departure of Counterweight and Retaining Hardware from the Crankshaft Assembly not applicable due to engine serial number.... (8) A.D. 2023-02-12 eff. 2/17/2023 To Prevent Failure of the Engine Intake Valve not applicable due to date of overhaul.... (9) A.D. 2022-16-03 eff. 8/15/2022 To Prevent Failure of the Magneto not applicable due to Slick 8310 magnetos installed.... (16) Removed valve cover and valve train on exhaust side of Cylinder #2, lapped exhaust valve in place. Valve and seat cleaned thoroughly and valve stem lubricated. Checked compression and found to be @ 65#. Reinstalled valve springs and valve keepers. Cleaned and installed previously removed rocker box cover with new lock washers. Ground ran aircraft. No discrepancies noted and no leaks present.

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

DATE: 20 March, 2023

SIGNED

John O'Connell, IA: 3564328

Work Order: 2460-03-2023

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Registration N8091T
 Make Continental
 Model IO-520-BB
 Serial No. 813777-R
 Invoice No. 23-2536
 CRS# XGKR718T

ALPINE AVIATION
 13310 Nevada City Ave.
 Grass Valley, CA 95945
 (530) 477-7701

Date October 25, 2023
 Tach 3338.0
 SMOH 634.2
 TT Engine 2507.8

Description of Inspections, Tests, Repairs, and Alterations.

- 1 Performed 50 hour inspection IAW Alpine Aviation 50 hour inspection checklist.
- 2 Drained oil, removed oil filter and sampled oil for analysis.
- 3 Inspected oil filter for contaminants, none found, and installed new oil filter p/n AA48109-1
- 4 Serviced engine with 10 quarts Phillips X/C 20W-50 engine oil.
- 5 Replaced starter o-ring w/ new P.N. MS9021-038
- 6 C/W Continental **CSB08-3C** Throttle and Mixture control lever by visual inspection. Next due 3438.0
- 7 C/W Continental **SB09-14** Crankshaft Corrosion Inspection by visual inspection. Next due 3438.0
- 8 C/W Continental **SB95-7A** Manifold Valve Cover Inspection by visual inspection. Next due 3388.0
- 9 C/W Continental **CSB07-01A** Con Rod Bushing Material Inspection IAW Par. II. Next due 3388.0

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