AIRCRAFT TECHNICAL RECORD

Section 3. ENGINE LOG



ENGINE DATA

1.	Make	Austro Engine Simbit
2.	Model	E4P-C
3.	Specification	E0008/EN
4.	Manufacturer's Serial Number	E4P-C-00190
5.	Date of Manufacture	July 2018

Section 3A: Engine Service and Maintenance Log

1 1	TIME RUN	TIME CYCI		CLES	DESCRIPTION	
	HOURS min	HOURS	min	Sub Total	TOTAL	DESCRIPTION OF WORK PERFO (INSPECTION, REPAIRS, REPLACEMENT)
BROUGHT _	-					CHOCMENT)
Dian	nond	DIAMOND AIRCR D.O.T. APPROVE	D MAINTE	NANCE		
Registration		ORGANIZATION1 Serial Number:	82 095			
Airframe Total Time. Engine RH SN:		vk Order: gine RH TT:	SO 0719 32.4	70		
	. S/N E4P-C-00190	0, installed on A	Aircraft	DA 62		
S/N: 62.095 Total Time	s, RIGHT Engine brought forw	vard: 32.4 hrs				
 EECU softv 	vare installed: VC33	_2P_06_21			-	
	documentation insp porated, none found		r moa s	and/or		
 All applical complied v 	ble Airworthiness i	Directives, Se	rvice B	ulletins		
AWD Bi-we	ekly checked thru					
	stro MM E4.08.04, le exchange intervals	atest revision for	or comp	onent		•
	tion due: 100 hr ins	pection				
The Maintenance De	escribed has been perfo Airworthin		plicable	Standard of	- 1034	
					-	
(St	ACRAFT MODE	00	T 4		-	
ACA S	ACA	Date:	11	2018		DIAMOND AIRCRAFT NO. D.O.T. APPROVED MAINTENANCE ORGANIZATION 151-93
1	1 1					Registration: N520RA AC Serial Number 62.095
~	161.93					Airframe Total Time: 33.8 Work Order: S0 071976 Engine RH SN: E4P-C-00190 Engine RH TT: 33.8
					4-70	RH propeller governor speed stop adjusted as required.
						The Maintenance Described has been performed IAW the Applicable Standard of Airworthiness
						The Maintenance Described has been performed IAW the Applicable Standard of Airworthiness
						The Maintenance Described has been performed IAW the Applicable Standard of Airworthiness
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Section 3A: Engine Service and Maintenance Log

DATE	TIME RUN		TIME SINCE OVERHAUL		CYCLES	
1 1	HOURS	min	HOURS	min	Sub Total	TOTAL
ROUGHT -						

DESCRIPTION OF WORK PERFO (INSPECTION, REPAIRS, REPLACEMENT)

DATE: 12/12/2019



ABSOLUTE AERO

21889 Skywest Drive, Hayward, CA 94541 · 510 782-6591

ENGINE ENTRY

WORK ORDER: 2587 AIRCRAFT: N520RA TACH: 103.0 TSOH: N/A TTE: 103.0

R/H ENGINE MODEL: Austro E4P-C S/N: E4P-C-00190

Complied with Austro MSB-E4-026/1 Electrical Harness Inspection and MSB-E4-003/24 EECU software update. Completed all 100 hour servicing using service kit (P/N: DA42-AE-100KIT). Drained and sampled oil. Removed and replaced oil filter with new. Examined old oil filter element, no contaminants found. Serviced engine with 6 liters of Aeroshell Diesel Ultra oil. Drained and sampled gearbox oil. Inspected and reinstalled gearbox oil filter. Serviced gearbox to fill using new Shell Spirax S6 GXME 75W80 oil. Pressure tested coolant system. Ground ran engine, leak and ops check good. No defects noted at this time. Downloaded ECU engine log file and event recorder. Verified AD's current through FAA AD biweekly 2019-25. All work completed in accordance with the Diamond DA 62 and Austro E4 Maintenance Manuals. -END

I certify that this engine has been inspected in accordance with FAR 43 Appendix D (100 Hour Inspection) and has been determined to be in an airworthy condition.

Brandon Thompson A&P / IA 3212565

ABSOLUTE AERO

21889 Skywest Drive, Hayward, CA 94541 - 510 782-6591

ENGINE ENTRY

DATE: 12/15/2020

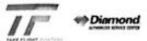
WORK ORDER: 2984 AIRCRAFT: N520RA TACH: 163.5 TSOH: N/A TTE: 163.5

R/H ENGINE MODEL: Austro E4P-C S/N: E4P-C-00190

Complied with Austro MSB-E4-003/25 EECU software update. Completed all 100-hour servicing using service kit (P/N: DA42-AE-100KIT). Drained and sampled oil. Removed and replaced oil filter with new. Examined old oil filter element, no contaminants found. Serviced engine with 6 liters of Aeroshell Diesel Ultra oil. Drained and sampled gearbox oil. Inspected and reinstalled gearbox oil filter. Serviced gearbox to fill using new Shell Spirax S6 GXME 75W80 oil. Pressure tested coolant system. Ground ran engine, leak and ops check good. No defects noted at this time. Downloaded ECU engine log file and event recorder. AD 2020-14-07 "failure of the fuel injectors and timing chain" is applicable. Timing chain is original at this date, and there have been no windmilling restarts performed since new. Timing chain replacement is due before further flight, before it exceeds 900 hours in service, or within 100 flight hours of experiencing a windmilling restart, whichever occurs LATER. Fuel injector replacement is due before Tach: 900.0. AD 2020-15-05 verified revised procedure already incorporated in the AFM. No further action required. Verified AD's current through FAA AD biweekly 2020-25. All work completed in accordance with the Diamond DA 62 and Austro E4 Maintenance Manuals -- END

certify that this engine has been inspected in accordance with FAR 43 Appendix D (100 Hour Inspection) and has been determined to be in an airworthy condition.

Brandon Thompson A&P / IA 3212565 THIS PAGE TOTALS PREVIOUS TOTALS TOTALS CARRY FORWARD to Top of Next Page SINCE NEW



Take Flight Aviation LLC - 49 Hangar Road - Montgomery, NY 12549 - 8454574188

N520RA TACH: 271.5

Austro, E4P-C, S/N: E4P-C-00190

May 03, 2021

- Performed Annual inspection I/A/W AC43.13 Appendix D using Diamond DA62 AMM and Austro Engine Maintenance Manual as references.
- 2. Engine ground run performed pre-inspection and engine data downloaded.
- Oil change performed. Removed and replaced oil filter with new filter p/n: E4A-52-100-802 from Austro Engine 100 hour kit. Engine serviced with 7.5 liters of Aeroshell Oil Diesel Ultra Engine Oil. Installed (1) E4A-52-000 - kit-100 hour.
- Removed and replaced fuel filter with new filter p/n: WK724/3.
- Gear box oil filters removed and inspected for particles, none found. Gear box oil drained and sampled, no particles found on magnetic drain plug. Reinstalled filter and drain plug. Filled gear box with 2.3L of Shell Spiral S6-GXME 75W-80 oil.
- Visually inspected alternator, engine wiring harness and sensors, rear belt drive system, cylinder head drain, full fuel system, waste gate controller, exhaust system, and engine breather line. No defects noted.
- Cooling system inspected. Coolant mixture ratio tested good. Verified proper operation of coolant tank pressure relief valve. Ops check good.
- 8. Alternate air and cabin heat systems both inspected and verified for proper operation.
- Air intake and turbo charging system inspected. Removed, cleaned, serviced and reinstalled K&N air filter assembly. V-Band clamp on turbo charger inspected for defects, none found.
- Inspected engine mounts for cracks, deterioration, or loose hardware.
- 11. Performed post-maintenance engine ground run. Performed leak check, none found. Downloaded EECU engine data.
- 12. All routine service items performed.
- 13. Verified AD compliance through this date.

With respect to the work performed, this engine r is approved for return to service. Details of work performed are on file with Take Flight Aviation LLC under work order: WO_794.

James T. Markey IA AP3166872IA

wo: WO 911



◆ Diamond

Engine R - page 1 of 1

Take Flight Aviation LLC - 49 Hangar Road - Montgomery, NY 12549 - 8454574188

N520RA Hobbs: 229.3

TACH: 374.4

Austro, E4P-C, S/N: E4P-C-00190

August 16, 2021

- Performed Annual inspection I/A/W 14 CFR part 43 Appendix D using Diamond DA62 checklist, Aircraft Maintenance Manual and Austro Engine Maintenance Manual as references.
- Engine ground run performed pre-inspection and engine data downloaded.
- Oil change performed. Removed and replaced oil filter with new filter p/n: E4A-52-100-802 from Austro Engine 100 hour kit. Engine serviced with 7.5 liters of Aeroshell Oil Diesel Ultra Engine Oil. Installed P/N E4A-52-000 - kit-100 hour.
- Removed and replaced fuel filter with new filter p/n: WK724/3.
- Gear box oil filters removed and inspected for particles, none found. Gear box oil drained and sampled, no particles found on magnetic drain plug. Reinstalled filter and drain plug. Filled gear box with 2.3L of Shell Spiral S6-GXME 75W-80 oil.
- Visually inspected alternator, engine wiring harness and sensors, rear belt drive system, cylinder head drain, full fuel system, waste gate controller, exhaust system, and engine breather line. No defects noted.
- Cooling system inspected. Coolant mixture ratio tested good. Verified proper operation of coolant tank pressure relief valve. Ops check good.
- 8. Alternate air and cabin heat systems both inspected and verified for proper operation.
- Air intake and turbo charging system inspected. Removed, cleaned, serviced and reinstalled K&N air filter assembly. V-Band clamp on turbo charger inspected for defects, none found.
- Inspected engine mounts for cracks, deterioration, or loose hardware.
- 11. Performed post-maintenance engine ground run. Performed leak check, none found. Downloaded EECU engine data.
- All routine service items performed.
- 13. Verified AD compliance through this date.
- 14. 6oz of engine coolant added as required.

I certify this engine was inspected in accordance with an Annual Inspection, this engine is determined Airworthy and is approved for return to service. Details of work performed are on file with Take Flight Aviation LLC under work order: WO_911.

James T. Markey IA AP3166872IA

I may

Section 3A: Engine Service and Maintenance Log TIME CYCLES DATE TIME RUN DESCRIPTION OF WORK PERFOR SINCE OVERHAUL DESCRIPTION, REPAIRS, REPLACEMENT) 1 TOTAL HOURS min HOURS BROUGHT wo: WO 1069 Take Flight Aviation LLC - 49 Hangar Road - Montgomery, NY 12549 - 8454574188 N520RA Austro, E4P-C, S/N: E4P-C-00190 Tach: 428.5 January 13, 2022 Retorqued leaking night pressure tool points. With respect to the work performed, this engine r is approved for return to service. Details of work performed are on file with Take Flight Aviation Retorqued leaking high pressure fuel pump to stop leak. Leak stopped, ops checked good. James T. Markey IA AP3166872IA Registration #: N520RA TACH: 516.60 Manufacturer: Austro Engines HOBBS: 439.20 BLUE LINE Serial No: E4P-C-00190 A/C Total Time: 516.60 Part/Model No: E4P Engine TSN: 516.60 Work Order No: 534 Date: 09/07/2022 Annual Inspection. Drained oil, pulled sample. Serviced engine with 7 liters of Aeroshell Ultra Diesel and using 100hr kit (P/N: E4A-52-300-KIT). Replaced fuel filter (P/N: WK724-3). Performed 100hr gearbox service: drained and strained gearbox oil and cleaned filter. Topped off coolant with G48. Ground run and leak check good. All ADs checked for compliance. I certify that this engine has been inspected IAW an Annual inspection and per FAR 43 App. D and Austro MM and was determined to be in an airworthy condition. THE AIRCRAFT, AIRFRAME, ENGINE, PROPELLER, OR APPLIANCE IDENTIFIED ABOVE WAS REPAIRED AND/OR INSPECTED IN ACCORDANCE WITH BLUE LINE TECHNICAL SERVICES LLC AND CURRENT MAINTENANCE RULES OF THE FEDERAL AVIATION REGULATIONS AND IS APPROVED WITH RESPECT TO WORK PERFORMED AT THIS TIME IN RETURN TO SERVICE Pertinent details, of maintenance are held in this Maintenancy Facility, under Work Order to 534 dated . Date: 9 Signature Work Order: 534 THIS PAGE TOTALS **PREVIOUS** TOTALS TOTALS SINCE NEW CARRY FORWARD to Top of Next Page

Registration #: N520RA Manufacturer: Austro Engines Serial No: E4P-C-00190 Part/Model No: E4P

Work Order No: 1843



E

TACH: 646.40 HOBBS: 603.60

A/C Total Time: 646.40 Engine TSN: 646.40

Date: 10/07/2023

CE:

• 100/200/300/600hr and Annual Inspection. Drained engine oil, pulled sample. Serviced engine with 7 Lts of Aeroshell Ultra Diesel and using 100hr kit (P/N: E4A-52-000-KIT). Replaced fuel filter (P/N: WK724-3). Performed 300hr gearbox service: drained oil and serviced with Spirax GSX 75W-80 and replaced filter with new (P/N: E4A-70-000-806). Topped off coolant with G48. Ground run and leak check good. Checked all ADs for compliance. I certify this engine has been inspected IAW a 100/200/300/600hr and Annual inspection per FAR 43 App. D and

- Replaced flywheel with new (P/N: E4PB-73-000-000-KIT) with new screws (P/N: E4A-73-000-801). Next inspection due 946.4 TT. Next replacement due 1246.4 TT.
- Replaced high pressure fuel pump with new (P/N: E4A-30-000-BHY, S/N: 22-10-07-02-00189) using new gaskets 2
 ea (P/N: DIN7603-12X16X2.0) and new sealing rings 2 ea (P/N: DIN7603-A12X16-AL). High pressure pump
- Updated ECU version to V.26.

THE AIRCRAFT, AIRFRAME, ENGINE, PROPELLER, OR APPLIANCE IDENTIFIED ABOVE WAS REPAIRED AND/OR INSPECTED IN ACCORDANCE WITH BLUE LINE TECHNICAL SERVICES LLC AND CURRENT MAINTENANCE RULES OF THE FEDERAL AVIATION REGULATIONS AND IS APPROVED WITH RESPECT TO WORK PERFORMED AT THIS TIME IN RETURN TO SERVICE.

Pertinent details of maintenance are held in this Maintenance Facility under Work Order No 1843 dated .

Date:	10/07/2023	Signature: > / /	- / -	to 1043 dated .
	(0/0// 200)	Signature: Raulal	Waguset	Work Order: 184
		AP Nun	nber: AMD 3884750	14

Registration #: N520RA Manufacturer: Austro Engines Serial No: E4P-C-00190

Part/Model No: E4P Work Orde: No: 2380



TACH: 731.70

HOBBS: 722.50 A/C Total Time: 731.70 Engine TSN: 731.70

Date: 02/23/2024

Removed old prop governor P/N P-877-16 and S/N-18G39816. Installed new prop governor P/N P-877-16 and S/N-23G978-K/H.on RH engine. Ops check good.

THE AIRCRAFT, AIRFRAME, ENGINE, PROPELLER, OR APPLIANCE IDENTIFIED ABOVE WAS REPAIRED AND/OR INSPECTED IN ACCORDANCE WITH BLUE LINE TECHNICAL SERVICES. LLC AND CURRENT MAINTENANCE RULES OF THE FEDERAL AVIATION REGULATIONS AND IS APPROVED WITH RESPECT TO WORK PERFORMED AT THIS TIME IN RETURN TO SERVICE.

Pertinent details of maintenance are held in this Maintenance Facility under Work Order No 2380 dated .

Date: 2/22/24	1 —	order no 2500 dated .
2/23/24	Signature: 7-8-	Work Order: 2380
	AP Number: 37/394	2

Section 3A: Engine Service and Maintenance Log



Take Flight Aviation LLC · 49 Hangar Road · Montgomery, NY 12549 · 8454574188

N520RA

Austro, E4P-C, S/N: E4P-C-00190

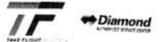
Tach: 764.7

October 25, 2024

EQ.

R/H engine borescoped as required in order to inspect for signs of head gasket damage. Borescope results showed beginning failure of R/H engine borescoped as required in order to inspect for signs of head gasket damage. Borescope results showed beginning failure of R/H engines. Recommended replacement of both head assemblies and confirmed best course of action with Diagonal / Austra AHV to BHV to BHV to BHV. R/H engine borescoped as required in order to inspect for signs of flead gasket of and confirmed best course of action with Diamond, head gasket on R/H engines. Recommended replacement of both head assemblies IAW Diamond / Austro AHY to BHY conversion in research head gasket on R/H engines. Recommended replacement of both flead assemblies IAW Diamond / Austro AHY to BHY conversion with Diamond. Diamond recommended replacement of both engine head assemblies IAW Diamond / Austro AHY to BHY conversion in response to Diamond recommended and replaced RH engine head assy and assosciated parts with new assembly as required laws. Diamond recommended replacement of both engine nead assembles in the property of the property head gasket damage. Removed and replaced HH engine fleau assy and asserted in specific data as required law AHY to BHY conversion. Aircraft ground-run as required in order to test engines. R/H Engine inspected for leaks or failures with no issues. Beinspected L/H and issues. to BHY conversion. Aircraft ground-run as required in order to test engines. It is indicated no issues. Reinspected L/H engine after noted. Aircraft test flown IAW MM to flight-test engine operations. Aircraft flight-test indicated no issues. Reinspected L/H engine after noted. Aircraft test flown IAW MM to flight-test engine operations. Aircraft flight-test indicated no issues. Reinspected L/H engine after noted. Aircraft test flown IAW MM to flight-test engine operations. Aircraft flight-test indicated no issues. Reinspected L/H engine after noted. Aircraft test flown IAW MM to flight-test engine operations. Aircraft flight-test indicated no issues. Reinspected L/H engine after noted. Aircraft test flown IAW MM to flight-test engine operations. Aircraft flight-test indicated no issues. Reinspected L/H engine after noted. Aircraft test flown IAW MM to flight-test engine operations. Aircraft flight-test indicated no issues. Reinspected L/H engine after noted. Aircraft test flown IAW MM to flight-test engine operations. noted. Aircraft test flown IAW MM to flight-test engine operations. All ops. checked good with no defects noted. Installed (10) P/N E4A-01-000-test-flight for leaks as required with no issues noted. All ops. checked good with no defects noted. Installed (10) P/N E4A-01-000-test-flight for leaks as required with no issues noted. All ops. checked good with no defects noted. Installed (10) P/N E4A-01-000-000-test-flight for leaks as required with no issues noted. All ops. checked good with no defects noted. Installed (10) P/N E4A-01-000-000-test-flight for leaks as required with no issues noted. All ops. checked good with no defects noted. Installed (10) P/N E4A-01-000-000-test-flight for leaks as required with no issues noted. All ops. checked good with no defects noted. Installed (10) P/N E4A-01-000-000-test-flight for leaks as required with no issues noted. All ops. checked good with no defects noted. Installed (10) P/N E4A-01-000-000-test-flight for leaks as required with no issues noted. All ops. checked good with no defects noted. Installed (10) P/N E4A-01-000-000-test-flight for leaks as required with no issues noted. test-flight for leaks as required with no issues noted. All ops. Glocked good revision and the state of the s 201 - Cylinder Head Screw, Installed P/N E4A-01-300-001 - 2-1 County Scheme P/N E4A-01-000-401 - Gasket, Installed P/N E4A-01-000-401 - Gasket, Installed P/N E4A-01-000-401 - Gasket, Installed P/N Exhaust Gasket, Installed P/N E4A-01-000-401 - Gasket, Exhaust Gasket, Installed (6) P/N DIN6797-A6, 4-A2 - 100tilled Lock Washer, Installed P/N E4A-01-000-402 - Gasket, Installed (6) P/N DIN6797-6.4-A - Lock Washer M6, Galvanized, Installed (3) P/N ISO4017-M8X20-10.9 - E4A-01-000-402 - Gasket, Installed (6) P/N DIN6797-6.4-A - Lock Washer M6, Galvanized, Installed (3) P/N ISO4017-M8X20-10.9 - Bolt, Hex Head M8x20, Installed (3) P/N NL8 - Nord-Lock M8/8, 7/13, 5/2, Installed P/N E4A-33-000-804 - E4A-33-000-804, Installed (4) P/N OR_7.8X3.2-ACM70 - O-Ring Rev/Lot - RC21078-(4) P/N DIN7603-12x16x2.0 - Ring Seal Rev/Lot: RC1801862, Installed (4) P/N On _7.0A3.2-ACM/V - O-Ring Rev/Lot: RC2105515, Installed P/N E4A-05-000-104 - Engine Gasket Rev/Lot: RC2200512, Installed P/N E4A-56-100-000 - E4A-56-100-000, Installed P/N AEP-00391-C-201 - AEP-00391-C-201, Installed P/N AEP-00391-C-301 - AEP-00391-C-301, Installed P/N DIN7603-14X18X2.0 - Copper Gasket Rev/Lot: RC2105168, Installed P/N E4A-04-000-005 - Gasket, Installed P/N AEP-00391-C-301, Installed P/N AEP-00391-C 00391-C-301, Installed (4) P/N DIN/503-14A16A2.0 - Copper Catalled P/N OR_6x2-FPM75 - O-Ring 6x2, Installed P/N AEP-00361 - Installed P/N E4A-15-000-102 - O-Ring Cylinder Head Cover, Installed P/N OR_6x2-FPM75 - O-Ring 6x2, Installed P/N AEP-00361 - Installed P/N E4A-78 400 - Assay Camshaft Exhaust, Installed P/N E4A-78 400 - Assay Camshaft Exhaust, Installed P/N E4A-78 400 - Assay Camshaft Exhaust. Installed P/N E4A-15-000-102 - O-Hing Cylinder Flead Colors, Installed P/N E4A-15-000-102 - O-Hing Cylinder Flead Colors, Installed P/N E4A-16-00361 - Restrictor for MSB-E4-029/2 Austro, Installed P/N E4A-23-30B-000 - Assy, Camshaft Exhaust, Installed P/N E4A-76-400-401 - Sealing Restrictor for MSB-E4-029/2 Austro, installed P/N E4A-14-100-301 - E4A-14-100-301, Installed P/N E4A-32-100-000 - Oil Drain Line, Ring Rev/Lot: RW2000392-10000, Installed P/N E4A-14-100-301, Installed P/N DIN7603-A12X16-A1 - 12 vision Line, Ring Rev/Lot: RW2000392-10000, Installed P/N E4A-14-100-301 - E4A-14-100-301, Installed (2) P/N DIN7603-A12X16-AL - 12 x 16 O-Ring Installed (12) P/N ISO7044-M8-8-Cu - M8 Locknut Rev/Lot: RC2103015, Installed (2) P/N DIN7603-A12X16-AL - 12 x 16 O-Ring Rev/Lot: RC1501398, Installed P/N E4A-23-40B-000 - Assy, Camshaft Intake, Installed P/N DIN3771-9X1.8-FPM75 - O-Ring 9x1, 8 FPM75, Installed (2) P/N DIN3771-18X1.5-FPM75 - O-Ring 18x1, 5 FPM75, Installed (2) P/N OR_8X1-FPM75 - O-Ring 9x1, (4) P/N E4A-03-000-201 - Screw, Installed (4) P/N E4A-04-000-001 - Manifold Gasket Rev/Lot: RC2202330, Installed P/N E4A-04-000-805 - Spherical Washer Rev/Lot: RC2200311 Installed P/N E4A-04-000-805 - Spherical Wash (4) P/N E4A-03-000-201 - Screw, Installed (4) P/N E4A-04-000-001 - Maillion Gasket Nov.Edt. No2202330, Installed P/N E4A-95-R15-000 - Repair Kit CAS1-CAS2 cable, Installed (4) P/N E4A-04-000-805 - Spherical Washer Rev/Lot: RC22000031, Installed P/N OR_63.17X2.62-FPM75 - O-Ring, Installed (2) P/N DIN6921-M6X16-8.8 - DIN6921-M6X16-8.8, Installed (2) P/N E4A-41-300-803 - 1-Ohr-Klemme 10.3 - 12.3 mm- Clamp, Installed (4) P/N DIN5401-10-G20 - Ball, 10mm G20, Installed (2) P/N DIN7603-A10x13.5-AL 10 x 13.5 Washer, Installed P/N E4A-01-000-409 - CYLINDER HEAD GASKET, Installed (2) P/N E4A-04-000-003 - Exhaust Gasket - 10 x 13.5 Washer, installed P/N E4A-04-000-806 - M8 x 40 Bolt Rev/Lot: RC2200369, Installed (4) P/N E4A-04-000-806 - M8 x 40 Bolt Rev/Lot: RC2200369, Installed (4) P/N E4A-04-000-806 - M8 x 40 Bolt Rev/Lot: RC2200369, Installed (4) P/N E4A-04-000-806 - M8 x 40 Bolt Rev/Lot: RC2200369, Installed (4) P/N E4A-04-000-806 - M8 x 40 Bolt Rev/Lot: RC2200369, Installed (4) P/N E4A-04-000-806 - M8 x 40 Bolt Rev/Lot: RC2200369, Installed (4) P/N E4A-04-000-806 - M8 x 40 Bolt Rev/Lot: RC2200369, Installed (4) P/N E4A-04-000-806 - M8 x 40 Bolt Rev/Lot: RC2200369, Installed (4) P/N E4A-04-000-806 - M8 x 40 Bolt Rev/Lot: RC2200369, Installed (4) P/N E4A-04-000-806 - M8 x 40 Bolt Rev/Lot: RC2200369, Installed (4) P/N E4A-04-000-806 - M8 x 40 Bolt Rev/Lot: RC2200369, Installed (4) P/N E4A-04-000-806 - M8 x 40 Bolt Rev/Lot: RC2200369, Installed (4) P/N E4A-04-000-806 - M8 x 40 Bolt Rev/Lot: RC2200369, Installed (4) P/N E4A-04-000-806 - M8 x 40 Bolt Rev/Lot: RC2200369, Installed (4) P/N E4A-04-000-806 - M8 x 40 Bolt Rev/Lot: RC2200369, Installed (4) P/N E4A-04-000-806 - M8 x 40 Bolt Rev/Lot: RC2200369, Installed (4) P/N E4A-04-000-806 - M8 x 40 Bolt Rev/Lot: RC2200369, Installed (4) P/N E4A-04-000-806 - M8 x 40 Bolt Rev/Lot: RC2200369, Installed (4) P/N E4A-04-000-806 - M8 x 40 Bolt Rev/Lot: RC2200369, Installed (4) P/N E4A-04-000-806 - M8 x 40 Bolt Rev/Lot: RC2200369, Installed (4) P/N E4A-04-000-806 - M8 x 40 Bolt Rev/Lot: RC2200369, Installed (4) P/N E4A-04-000-806 - M8 x 40 Bolt Rev/Lot: RC2200369, Installed (4) P/N E4A-04-000-806 - M8 x 40 Bolt Rev/Lot: RC2200369, Installed (4) P/N E4A-04-000-806 - M8 x 40 Bolt Rev/Lot: RC2200369, Installed (4) P/N E4A-04-000-806 - M8 x 40 Bolt Rev/Lot: RC2200369, Installed (4) P/N E4A-04-000-806 - M8 x 40 Bolt Rev/Lot: RC2200369, Installed (4) P/N E4A-04-000-806 - M8 x 40 Bolt Rev/Lot: RC2200369, Installed (4) P/N E4A-04-000-806 - M8 x 40 Bolt Rev/Lot: RC2200369, Installed (4) P/N E4A-04-000-806 - M8 x 40 Bolt Rev/Lot: RC2200369, Installed (4) P/N E4A-04-000-806 - M8 x 40 Bolt Rev/Lot: R Conical Washer Rev/Lot: RC2200031, Installed (7) P/N 5W30LT - Aeroshell, Installed P/N HU615/3x - Oil filter, Installed P/N WK724-3 - Fuel filter, Installed (4) P/N E4A-03-000-801 - Austro Engine Gasket, Installed P/N E4A-00-M02-BHY - Cylinder Head Assembly S/N: 03660, Installed P/N AEP-00391-C-201 - AEP-00391-C-201, Installed (4) P/N E4A-03-000-301 - Injector Clamp, modified, Installed P/N E4A-07-000-201 - Sprocket, Timing Chain, Installed (4) P/N E4A-03-000-301 - Injector Clamp, modified, Installed P/N E4A-07-000-201 - Sprocket, Installed P/N E4A-33-000-804 - Cap, Rail System Assy, Installed (4) P/N 2142110 - M10 Hex Nut w/ Flange.

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Take Flight Aviation LLC - 49 Hangar Road - Montgomery, NY 12549 - 8454574188

N520RA Hobbs: 765.4 Austro, E4P-C, S/N: E4P-C-00189

Tach: 764.7

October 25, 2024

- obbs: 765.4

 1. Performed Annual inspection I/A/W 14 CFR part 43 Appendix D using Diamond DA62 AMM and Austro Engine Maintenance

 1. Performed Annual inspection I/A/W 14 CFR part 43 Appendix D using Diamond DA62 AMM and Austro Engine Maintenance
- Engine ground run performed pre-inspection and engine data downloaded.
- Engine ground full periodic periodi Oil change performed. Drained oil differ as required. Engine serviced with oil as required. Installed P/N E4A-52-000 - kit-100 corqued, and safety wired new oil filter as required. Engine serviced with oil as required. Installed P/N E4A-52-000 - kit-100 corqued, and safety wired new oil filter as required. Engine serviced with oil as required. Installed P/N E4A-52-000 - kit-100 corqued. hour, Installed (7) P/N 5W30LT - Aeroshell, Installed P/N Blackstone Kit - Oil Analysis.
- Removed and replaced fuel filter with new filter p/n: WK724/3.
- 4. Removed and replaced.

 4. Removed and replaced for particles, none found. Gear box oil drained and sampled, no particles found on the sampled of the samp Gear box oil little's removed and inspended, no particle magnetic drain plug. Reinstalled filter and drain plug. Filled gear box with 2.3L of Shell Spiral S6-GXME 75W-80 oil.
- 6. Visually inspected alternator, engine wiring harness and sensors, rear belt drive system, cylinder head drain, full fuel system, waste gate controller, exhaust system, and engine breather line. No defects noted.
- Cooling system inspected. Coolant mixture ratio tested good. Verified proper operation of coolant tank pressure relief valve. Ops check good.
- 8. Alternate air and cabin heat systems both inspected and verified for proper operation.
- 9. Air intake and turbo charging system inspected. Removed, cleaned, serviced and reinstalled K&N air filter assembly. V-Band clamp on turbo charger inspected for defects, none found.
- 10. Inspected engine mounts for cracks, deterioration, or loose hardware.
- Performed post-maintenance engine ground run. Performed leak check, none found. Downloaded EECU engine data.
- 12. All routine service items performed.
- 13. Checked applicable AD's bi-weekly thru this date.
- 14. Removed and replaced RH engine turbo waste gate controller clip with new as required. Installed P/N E4A-41-120-000 Waste Gate Controller Rev/Lot: RC2107145.
- 15. Removed and replaced RH engine turbo charger with new unit as required. Installed S/N: AD-608700-00001.
- 16. Cleaned and applied heat paint on RH engine injector cover as required. Installed P/N HENSOTHERM2K Fire Paint Base. Installed P/N HENSOTOP84A - Fire Paint Top Coat.
- Re-torqued high pressure fuel pump on RH engine to prevent oil leakage.
- 18. Tightened RH engine fuel pump mounting hardware to prevent leakage.

I certify that this engine (R/H) has been inspected in accordance with an Annual Inspection, and that this engine has been determined airworthy and is approved for return to service.

nes T. Markey IA 3166872 for 1 Trigun	