



4760 Airport Road, Hangar # 6, Lunken Airport
Cincinnati, Ohio 45226 USA
FAA Certified Repair Station # E5ZR316Y
(513) 871-9966 fax: (513) 871-9261
www.SignatureEnginesInc.com

MODEL: IO-550-N(60)

SERIAL: 691409

WORK ORDER: E8125-OH

ENGINE LOGBOOK

THE **adlog**TM AIRCRAFT
MAINTENANCE
RECORDKEEPING
SYSTEM

**ENGINE
MAINTENANCE
RECORDS**

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
TOTALS brought forward from previous page				

1. Approving Civil Aviation Authority/Country: FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG		3. Form Tracking Number: Invoice # 11314	
4. Organization Name and Address: Signature Engines, Inc., 4760 Airport Road, Cincinnati, Ohio 45226				5. Work Order/Contract/Invoice Number: E8125-OH	
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:
1	Continental Motors Engine	IO-550-N	1	691409	Overhauled
12. Remarks: THIS ENGINE HAS BEEN OVERHAULED IN ACCORDANCE WITH THE APPLICABLE CONTINENTAL MOTORS MANUALS. A LIST OF ALL PARTS, F.A.A. AIRWORTHINESS DIRECTIVES AND MANUFACTURER'S SERVICE BULLETINS COMPLIED WITH ARE A PART OF THESE RECORDS. ALL PARTS HAVE BEEN INSPECTED AND HAVE BEEN DETERMINED AIRWORTHY TO RETURN TO SERVICE. ENGINE TEST RUN PER FAA APPROVED DATA (SEIP-103) AND/OR OVERHAUL MANUAL TEST SHEET FURNISHED. THIS ENGINE IS AIRWORTHY FOR RETURN TO SERVICE. PARTS AND ACCESSORIES REPLACED: 6 New Continental Factory Cylinders 2 Overhauled Pressurized Magnetos 1 New Harness 1 Overhauled Fuel Injection System 1 Overhauled Fuel Pump 1 New Set of Spark Plugs Engine T.S.M.O. 0 Hours Engine T.T.S.N. 1,841.3 Hours					
13a. Certifies the items identified above were manufactured in conformity to: ☐ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 12.			14a. ☒ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 12 Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service.		
13b. Authorized Signature:		13c. Approval/Authorization No.:		14b. Authorized Signature:	
13d. Name (Typed or Printed):		13e. Date (dd/mm/yyyy):		14c. Approval/Certificate No.:	
				ESZR316Y	
				14d. Name (Typed or Printed): Terrence McRoberts, Inspector	
				14e. Date (dd/mm/yyyy): 04/jun/2020	
User/Installer Responsibilities It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1. Statements in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.					

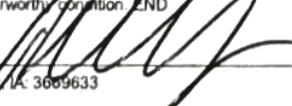
ENGINE MODEL: **Lone Mountain Aircraft Maintenance**
ENGINE S/N: 2460 Greentree Road
REG NO: N98LW Hangar 12
WORK ORDER: Lebanon, Ohio 45036
2091-03-2020 Phone: 888-566-3686

DATE: 8/3/2020
A/C TSN: 2012.1
ENG TT:
TACH: 1664.6

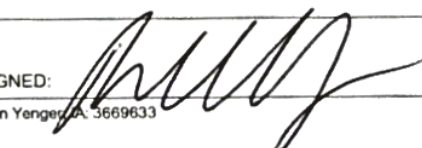
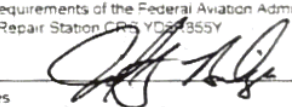
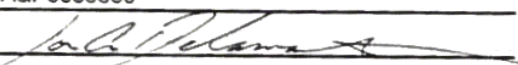
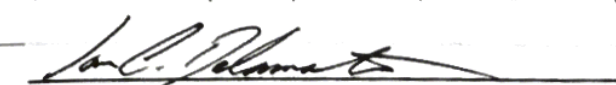
Engine Entries

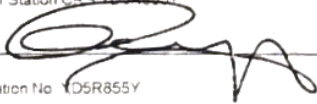
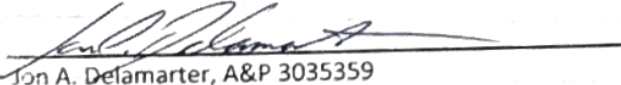
(2) C/W Engine Annual Inspection. Engine and Turbo components were Overhauled see Item #4 on this work order.... (4) Removed engine and installed overhauled engine s/n 691409. Replaced master wastegate with overhauled unit p/n 470842-0004, s/n KLN00820. Replaced slave wastegate with overhauled unit p/n 477233-0003, s/n 59101. Reinstalled right and left turbochargers p/n 466304-0003, s/n LJJ00130 & LJJ00030. after overhaul Replaced pressure controller with overhauled unit p/n 470688-0005, s/n 61364. Replaced wastegate cable and linkage assy. Replaced engine driven fuel pump with overhauled unit p/n ETI-SR-22-2-12, s/n GP5056. Replaced starter with overhauled unit p/n 646275-1, s/n H-Q081643. Replaced #1 alternator with overhauled unit p/n ES-10024, s/n H-M090298. Replaced #2 alternator with overhauled unit p/n 657199, s/n H-S022256. Replaced propeller Governor with overhauled unit p/n C290D3R/T23, s/n 071212. Replaced electric fuel boost pump with new Weidon p/n 42263-001, s/n 219004 per SB2X-28-15. Next replacement due 07-2030. Replaced L/H intercooler baffle assembly. Replaced R/H intercooler baffle assembly. Replaced flexible fuel hoses. Replaced #2 EGT probe. Replaced engine shock mount assy's. Replaced engine mount bolts and barrel nuts. Replaced magneto filter. Next replacement due 07-2022.... (20) Serviced air filter with TATI Re-charger kit.... (34) Replaced oil temperature probe with p/n 24761-002.... (35) Replaced Right TIT probe.

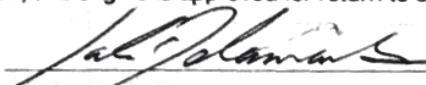
This engine has been inspected in accordance with a 100/annual inspection in accordance with the manufacturers maintenance manual and current FAA regulations and has been determined to be in an airworthy condition. END

DATE: 8/3/2020 SIGNED:  Work Order: 2091-03-2020
Ryan Yenger, A: 3669633 Printed by EBis 3 (datcomedia.com)

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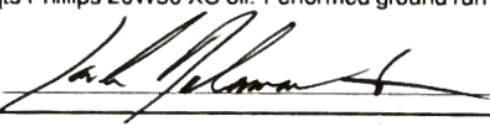
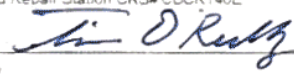
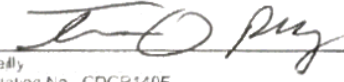
DA	TOTAL	TOTAL	TACH OR	
ENGINE MODEL: Lone Mountain Aircraft Maintenance ENGINE S/N: 2460 Greentree Road REG NO: N98LW Hangar 12 WORK ORDER: Lebanon, Ohio 45036 2237-09-2020 Phone: 888-566-3686				DATE: 9/4/2020 A/C TSN: 2028.2 ENG TT: TACH: 1676.1
Engine Entries (1) Removed and replaced L/H Magneto P/N 10-500556-101 S/N D16JA166. Test ran and confirmed mag drop on both magnetos to be within manufactures specifications.				
DATE: 9/4/2020		SIGNED: 		Work Order: 2237-09-2020 Printed by EBis 3 (datcomedia.com)
Ryan Yenger, A: 3669633				
ENGINE MODEL: CIRRUS Cirrus Design Factory Service Center ENGINE S/N: 991309 REG NO: N98LW WORK ORDER: Duluth, MN 55811 TKI0605-10-2020 Phone: 218-788-3049				DATE: 10/5/2020 A/C TSN: 1983.6 ENG TT: 1983.6 TSMCH HCBBS: 2037.5
Engine Entries (5) Drained engine oil. Serviced engine with 8 quarts of Phillips 66 X/C 20W50 engine oil. Replaced oil filter with new Tempest AA48108-2. Performed particulate inspection on old filter and found no unusual contamination. Leak check performed with no discrepancies noted. Work accomplished in accordance with Cirrus Aircraft SR-2X AMM 12-10. I have reviewed the file on this aircraft and the accompanying discrepancy forms. The aircraft, airframe, aircraft engine, propeller or appliance identified was repaired/inspected in accordance with current requirements of the Federal Aviation Administration and is approved for return to service. Pertinent details of this work order are on file at this Certified Repair Station CFS Y059355Y.				
DATE: 10/5/2020		SIGNED: 		Work Order: TKI0605-10-2020 Printed by EBis 3 (datcomedia.com)
Jeffrey Bridges				
Date: 03/01/2021 Hours: 1727.5 Tail: N98LW Make: Cirrus Model: SR22 S/N: 22-3428 Name: Jon Delamarter Cert: A&P3035359 Co: Kingdom Air, LLC Signed:  Drained oil. Opened and inspected oil filter; no abnormal particulates noted. Installed new oil filter, p/n AA48108-2, and serviced with 8 qts Phillips 20W50 X/C oil. Performed ground run and leak check; no leaks noted.				
Reg#: N98LW Make: Cirrus Date: 7/28/2021 Flight: 1769.3 Model: SR22 Hobbs: 2136.9 S/N: 3428 KINGDOM AIR Drained oil. Opened and inspected oil filter; no abnormal particulates noted. Installed new oil filter (p/n AA48108-2) and serviced with 8 qts Phillips 20W50 X/C oil. Performed ground run and leak check.  Jon A. Delamarter, A&P 3035359 28 July 2021				
SUB-TOTALS this page TOTALS-Carry forward to next page				

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TOTALS brought forward from previous page				
				ENGINE MODEL IO550N CIRRUS Cirrus Design Factory Service Center ENGINE S/N: 891409 REG NO N98LW WORK ORDER TKI1140-08-2021 Repair Station No YDSR855Y 4961 Airport Road Duluth MN 55811 Phone 218-788-3049 DATE 10/13/2021 A/C TSN: 11718 ENG TT: 11718 TSMOH HOBBS: 21409
Engine Entries (6) Performed an annual inspection of this engine in accordance with Cirrus Aircraft SR-22 AMM 05-20 inspection checklist. Compression check results: 1) 64/80 2) 74/80 3) 68/80 4) 68/80 5) 65/80 6) 65/80 Master orifice reading: 44 Serviced K&N induction filter IAW K&N instructions 18627C dated 06/17 (14) Drained engine oil. Serviced engine with 8 quarts of Phillips 66 X/C 20W-50 engine oil. Replaced oil filter with new Tempest AA48108-2 Performed particulate inspection on old filter and found no unusual contamination Leak check performed with no discrepancies noted Work accomplished in accordance with Cirrus Aircraft SR-22 AMM 12-10 (15) Performed engine setup per Continental Motors Manual M-16 and TAT ICA 22-6460004 Post setup operational and leak check performed with no discrepancies (22) Adjusted manifold air pressure to 30.5 IAW TAT ICA 22-6460004 (25) Complied with SB TAT SB12-02 No leakage found at this time (26) Removed, inspected, cleaned and reinstalled LH & RH turbo oil supply inlet screen & adaptor. Parts were in servicable condition and functioned properly All work performed IAW instruction in TAT SB11-04 (27) Complied with and replaced right hand tailpipe support bracket IAW Tornado Alley TAT SB10-02 Rev. B (28) LH & RH exhaust manifolds & turbo mount flanges inspected with no defects found All work performed IAW TAT SB09-01 (29) TAT FAA-2007-28863 AD has been C/W S/N's of turbochargers currently installed (RH: LJL00130 LH: LJL00030) are not in affected range & inspection revealed no defects on LH & RH turbochargers All work was performed IAW instructions in TAT FAA-2007-28863 AD & Kelly Aerospace SB No. 026 Rev. B and 027 (39) Removed and replaced Fuel Injector lines on cylinder #2 (PN: 646422) & cylinder #4 (PN: 646424) IAW Continental MM-M-0 (61) I certify that this engine has been inspected in accordance with an annual inspection and was determined to be in an airworthy condition I have reviewed the file on this aircraft and the accompanying discrepancy forms. The aircraft, airframe, aircraft engine, propeller or appliance identified was repaired/inspected in accordance with current requirements of the Federal Aviation Administration and is approved for return to service. Pertinent details of this work order are on file at this Certified Repair Station CFS YDSR855Y DATE: 10/13/2021 SIGNED:  Work Order: TKI1140-08-2021 Errol Applewhite Certified Repair Station No. YDSR855Y Printed by EBis 3 (datcommedia.com)				
Reg#: N98LW Make: Cirrus Date: 4/28/22 Flight: 1819.7 Model: SR22 Hobbs: 2198.0 S/N: 3428 KINGDOM AIR Drained oil. Opened and inspected oil filter; no abnormal particulates noted. Installed new oil filter (p/n AA48108-2) and serviced with 8 qts Phillips 20W50 X/C oil. Performed ground run and leak check.  Jon A. Delamarter, A&P 3035359 28 April 2022				
SUB-TOTALS this page				
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TOTALS brought forward from previous page				
				ENGINE MODEL IO550N CIRRUS Cirrus Design Factory Service Center ENGINE S/N: 891409 REG NO N98LW WORK ORDER TKI1140-08-2021 Repair Station No YDSR855Y 4961 Airport Road Duluth MN 55811 Phone 218-788-3049 DATE 10/13/2021 A/C TSN: 11718 ENG TT: 11718 TSMOH HOBBS: 21409
Engine Entries (6) Performed an annual inspection of this engine in accordance with Cirrus Aircraft SR-22 AMM 05-20 inspection checklist. Compression check results: 1) 77/80 2) 75/80 3) 77/80 4) 72/80 5) 71/80 6) 71/80 Master orifice reading: 44 Replaced induction air filter element PN 50207-200 (7) Inspected Tornado Alley Turbo system in accordance with the instructions for Continued Airworthiness 22-6460004 Scheduled Maintenance Checklist (16) Drained engine oil. Serviced engine with 8 quarts of Phillips 66 20W-50 X/C engine oil. Replaced oil filter with new Tempest AA48108-2 Performed particulate inspection on old filter and found no unusual contamination Leak check performed with no discrepancies noted Work accomplished in accordance with Cirrus Aircraft SR-22 AMM 12-10 (17) Performed engine run to verify that the engine parameters for manifold pressure, fuel flow, and temperature are within the specifications of the Tornado Alley Turbo ICA 22-6460004 (29) Replaced slave wastegate return spring with new P/N LEM100D030 Work performed IAW TAT Page 12-6460004 (30) Cleaned engine IAW SR-22 AMM 71-00 (31) Replaced Alternator 2 enclosure assembly with new P/N 17547-00-47-R05961 Work was performed IAW Cirrus SR-22 AMM Chapter 71-00 (52) Removed split oil breather hose and installed new oil breather hose P/N 50404-7000 IAW SR-22 AMM 76-30 (54) I certify that this engine has been inspected in accordance with an annual inspection and was determined to be in an airworthy condition I have reviewed the file on this aircraft and the accompanying discrepancy forms. The aircraft, airframe, aircraft engine, propeller or appliance identified was repaired/inspected in accordance with current requirements of the Federal Aviation Administration and is approved for return to service. Pertinent details of this work order are on file at this Certified Repair Station CFS YDSR855Y DATE 9/20/2022 SIGNED:  Work Order: TKI1904-09-2022 Jon A. Delamarter Certified Repair Station No. YDSR855Y Printed by EBis 3 (datcommedia.com)				
ENGINE MODEL IO550N CIRRUS Cirrus McKinney Service Center ENGINE S/N: 891409 REG NO N98LW WORK ORDER KTK12598-01-2023 Repair Station No YDSR855Y 4961 Airport Road Duluth MN 55811 Phone 218-788-3049 DATE 10/13/2021 A/C TSN: 11718 ENG TT: 11718 TSMOH HOBBS: 21409				
Engine Entries (6) Replaced pressurized magneto filter P/N 54-6700015 with new Work performed IAW Cirrus SR-22 AMM 74-10 (9) Performed engine setup IAW Cirrus Aircraft SR-22 AMM 73-20 and Continental Motors MM-M-16 Post setup operational and leak check performed with no discrepancies (10) Installed new oil filter gasket P/N 642392 IAW Continental MM-M-0 I have reviewed the file on this aircraft and the accompanying discrepancy forms. The aircraft, airframe, aircraft engine, propeller or appliance identified was repaired/inspected in accordance with current requirements of the Federal Aviation Administration and is approved for return to service. Pertinent details of this work order are on file at this Certified Repair Station CFS YDSR855Y DATE 1/28/2023 SIGNED:  Work Order: KTK12598-01-2023 Jon A. Delamarter Certified Repair Station No. YDSR855Y Printed by EBis 3 (datcommedia.com)				
wo: WO_17 Engine - page 1 of 1 KINGDOM AIR Kingdom Air, LLC - 1810 S Fourth Street - Graham, TX 76450 - (940)456-4320 N98LW CONT MOTOR, IO-550-N, S/N: ENGINE SN TBD Flight Hobbs: 1906.0 March 22, 2023 Drained oil. Opened and inspected oil filter; no abnormal particulates noted. Installed new oil filter, p/n AA48108-2, and serviced with 8 qts Phillips 20W50 oil. Performed ground run and leak check. With respect to the work performed, this engine is approved for return to service.  Jon Delamarter A&P/IA 3035359				
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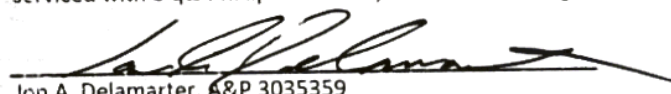
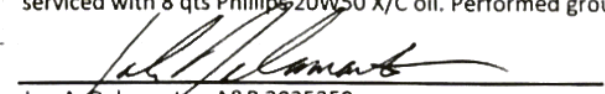
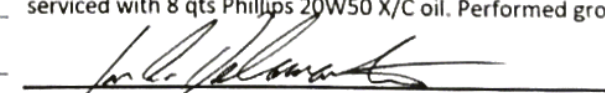
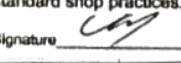
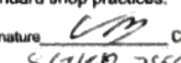
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TOTALS brought forward from previous page				
ENGINE MODEL IO-550-1, CIRRUS Cirrus McKinney Service Center ENGINE S/N 891409 REG. NO. N98LW WORK ORDER KTKI3334-01-2024 DATE: 11/14/2023 A/C TSN: 20147 ENG TT: 352 TSMCH: 352 HOBBS: 3429 Repair Station No. CDCR140E 1500 Industrial Blvd Hangar #19 McKinney, TX 75069 Phone: 469-215-4452				
Engine Entries				
(3) Performed an annual inspection of this engine IAW SR22 AMM 05-20 inspection checklist. Compression check results: 1) 74/80 2) 70/80 3) 72/80 4) 74/80 5) 70/80 6) 70/80. Master orifice reading: 44. (4) Inspected Tornado Alley Turbo system in accordance with the Instructions for Continued Airworthiness (22-6460004) Scheduled Maintenance Checklist. (13) Drained engine oil. Serviced engine with 8 quarts of Phillips 20W-50 X-C engine oil. Replaced oil filter with new Tempest AA48108-2. Performed particulate inspection on old filter and found no unusual contamination. Leak check performed with no discrepancies noted. Work accomplished IAW SR22 AMM 12-10. (14) Performed engine run to verify that the engine parameters for manifold pressure, fuel flow and temperatures are within the specifications of the Tornado Alley Turbo ICA 22-6460004. (21) Complied with Tornado Alley Service instruction TAT S120-01. (24) TAT S115-02 does not need to be performed at this time. Found turbos to spin freely during Annual inspection. No defects noted. (25) Complied with TAT SB12-02 Engine driven fuel pump leakage check at mixture control arm. Due again at next Annual. No leaks at this time. (26) TAT SA11-09 and Continental Motors Mandatory SB11-4 Starter Adapter Inspection does not apply. Starter adapter and scavange oil pump installed after November 20, 2011. Compliance not required. (27) Complied with TAT S111-03 Tempest URHB 32E spark plugs installed and tested good. Ops check good. (28) Removed, cleaned and re-installed turbo oil supply line screens IAW Tornado Alley Service Bulletin SB11-04. (29) Complied with TAT S111-03 inspection of the turbocharger support bracket assemblies. Due at next Annual. (30) Performed S111-01 IAW SR22 AMM 5-20 and TAT ICA during annual inspection. Inspected for and found no evidence of binding, damage or deformation at slip joints. (37) Replaced ALT #2 mounting bracket PN: 646405 with new bracket PN: 646405 IAW SR22 AMM 24-30 and Continental Manual M-16. Alternator 2 ops check good. (47) Slave waste gate spring bracket removed and replaced on correct side. IAW TORNADO ALLEY TURBO 22-6460004 C and				
1 of 2				
Cirrus SR22 22-78-10 (48) Replaced Slave Waste Gate clevis pin (P/N: MS20392-1C13) on gate actuation arm with new pin IAW TAT ICA 22-6460004. Ops check good. (56) Adjusted both magnetos to 21.5 degrees. IAW Cirrus SR22 74-10 with reference to TAT ICA 22-6460004 rev C. (59) Replaced LH wastegate upper (P/N 22-6250006) and lower (P/N 22-6200021) support bushings IAW Tornado Alley				
DATE: 11/14/2023 SIGNED: <i>Tim O'Reilly</i> Work Order: KTKI3087-09-2023 Printed by EBIS 3 (datcomedia.com)				
wo: WO_22 Engine: page 1 of 1 KINGDOM AIR Kingdom Air, LLC - 1810 S Fourth Street - Graham, TX 76450 - (940)456-4320 N98LW CONT MOTOR, IO-550-N June 16, 2023 Flight Hobbs: 1949.4 Drained oil. Opened and inspected oil filter; no abnormal particulates noted. Installed new oil filter, p/n AA48108-2, and serviced with 8qts Phillips 20W50 oil. Performed ground run and leak check. Jon Delamarter A&P/IA 3035359 <i>Jon Delamarter</i>				
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ENGINE MODEL IO-550-1, CIRRUS Cirrus McKinney Service Center ENGINE S/N 891409 REG. NO. N98LW WORK ORDER KTKI3334-01-2024 DATE: 1/13/2024 A/C TSN: 20147 ENG TT: 350.1 TSMCH: 350.1 HOBBS: 3429.9 Repair Station No. CDCR140E 1500 Industrial Blvd Hangar #19 McKinney, TX 75069 Phone: 469-215-4452				
Engine Entries				
(2) Adjusted manifold pressure to 30.5 inches IAW Tornado Alley STC's SA10588SC.				
I have reviewed the file on this aircraft and the accompanying discrepancy forms. The aircraft, airframe, aircraft engine, propeller or appliance identified was repaired/inspected in accordance with current requirements of the Federal Aviation Administration and is approved for return to service. Pertinent details of this work order are on file at this Certified Repair Station CRS# CDCR140E.				
DATE: 1/18/2024	SIGNED: <i>Alay Coats</i>		Work Order: KTKI3334-01-2024 Printed by EBIS 3 (datcomedia.com)	
ENGINE MODEL IO-550-1, CIRRUS Cirrus McKinney Service Center ENGINE S/N 891409 REG. NO. N98LW WORK ORDER KTKI3334-01-2024 DATE: 1/19/2024 A/C TSN: 20147 ENG TT: 352 TSMCH: 352 HOBBS: 3434.3 Repair Station No. CDCR140E 1500 Industrial Blvd Hangar #19 McKinney, TX 75069 Phone: 469-215-4452				
Engine Entries				
(2) Performed prop governor rigging and cruise power adjustment and full power rpm adjustment IAW SR22 AMM 61-20 and TAT ICA. (3) Replaced LH & RH magnetos with overhauled magnetos (P/N BL10-500556-101) and set mag to engine timing to 21.5 degrees BTDC. All work done IAW Tornado Alley STC SA10588SC and SE10589SC. Leak and ops check good.				
I have reviewed the file on this aircraft and the accompanying discrepancy forms. The aircraft, airframe, aircraft engine, propeller or appliance identified was repaired/inspected in accordance with current requirements of the Federal Aviation Administration and is approved for return to service. Pertinent details of this work order are on file at this Certified Repair Station CRS# CDCR140E.				
DATE: 1/19/2024	SIGNED: <i>Tim O'Reilly</i>		Work Order: KTKI3334-01-2024 Printed by EBIS 3 (datcomedia.com)	
DATE: 2/29/2024 W/O# 21163 FLIGHT METER BRADLEY AVIATION LLC 317-727-8157 Engine Logbook Entry AIRCRAFT: N 98LW CRS AWKR298C S/N 3428 25170 Aviation Ave., Davis, CA 95616 DATE: 03-22-24 MX TIME: 2068.3				
wo: WO_ N98LW Cirrus SR22 S/N 3428- - Removed engine cowlings. - Removed right magneto P/N BL-50056-101 S/N D23HA036R - Installed rebuilt magneto P/N BL-50056-101 S/N D24AA107R using new 10-357520 gasket and timed to engine. (See 8130 from Continental Aerospace Tech dated 01/25/24) - Ground ran engine to check for fluid leaks and magneto drop. (No leaks found, and engine ops check normal at this time) - Reinstalled engine cowlings N98LW Flight H Drained oil noted. SCOTT BRADLEY AP43988501A <i>Scott Bradley</i> END Jon Delamarter A&P/IA 3035359 <i>Jon Delamarter</i>				
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TOTALS-Carry forward to next page				

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TOTALS brought forward from previous page				
wo: WO_40 Engine: page 1 of 1				
 Kingdom Air, LLC · 1810 S Fourth Street · Graham, TX 76450 · (940)456-4320				
N98LW CONT MOTOR, IO-550-N July 16, 2024 Flight Hobbs: 2140.8				
Drained oil. Opened and inspected oil filter; no abnormal particulates noted. Installed new oil filter, p/n AA48108-2, and serviced with 7 qts Phillips 20W50 XC oil. Performed ground run and leak check; no leaks noted.				
Jon Delamarter A&P/IA 3035359 				
ENGINE MODEL IO-550-N CIRRUS Cirrus McKinney Service Center ENGINE S/N 691409 Repair Station No. CDCR140E REG NO N98LW 1500 Industrial Blvd WORK ORDER Hangar #19 KTKI3472-04-2024 McKinney, TX 75069 Phone 469 215 4452				
DATE 4/7/2024 A/C TSN 2083 ENG TT 413.4 TSMOH 413.4 HOBBS 2511.5				
Engine Entries (2) Adjusted Fuel flow, MAP, T.O. RPM and cruise RPM adjustments IAW Tornado Alley ICA				
I have reviewed the file on this aircraft and the accompanying discrepancy forms. The aircraft, airframe, aircraft engine, propeller or appliance identified was repaired/inspected in accordance with current requirements of the Federal Aviation Administration and is approved for return to service. Pertinent details of this work order are on file at this Certified Repair Station CRS# CDCR140E				
DATE: 4/7/2024 SIGNED:  Work Order: KTKI3472-04-2024 Tim O'Reilly Certified Repair Station No. CDCR140E Printed by EBIS 3 (datcomedia.com)				
MAKE: Cirrus MODEL: SR22 S/N: 3426 REG NO: N98LW ENGINE MODEL: IO-550-N ENGINE SN: 691409				
 Cirrus McKinney Service Center Repair Station No. CDCR140E 1500 Industrial Blvd Hangar #19 McKinney, TX 75069				
W/O #: KTKI4524-11-2024 DATE: 12-12-2024 TSMOH: 527.1 Flight Time: 2191.7 Hobbs: 3191.7				
Engine Entries • Performed an annual inspection of this engine IAW SR22 AMM 05-20 inspection checklist. Compression check results: 1) 72/80 2) 54/80 3) 64/80 4) 68/80 5) 72/80 6) 67/90. Master on/off reading: 4d • Inspected Tornado Alley Turbo system in accordance with the Instructions for Continued Airworthiness (22-6460004) Scheduled Maintenance Checklist. • Changed engine oil and filter, performed Oil Filter Particle Inspection and serviced engine with 8 quarts of Phillips 66 20W50 XC IAW SR22 AMM 12-10. Leak check good. • Performed engine run to verify that the engine parameters for manifold pressure, fuel flow and temperatures are within the specifications of the Tornado Alley Turbo ICA 22-6460004. • Replaced slave waste gate return spring (PN LEM120D03S) IAW Tornado Alley Turbo Drawings. Report 22-6460007 • Replaced magneto filter IAW SR22 AMM 74-10. • Replaced all spark plugs with new Tempest URHB-32E's IAW SR22 AMM 74-20. • Completed with 2 year/500-hour inspection of Alt 1 and replaced brush block (P/N: 658152). All work accomplished IAW Continental Manual M-6. Ops check good. • I certify that this engine has been inspected IAW an annual inspection and was determined to be in an airworthy condition				
I have reviewed the file on this aircraft and the accompanying discrepancy forms. The aircraft, airframe, aircraft engine, propeller or appliance identified was repaired/inspected in accordance with current requirements of the Federal Aviation Administration and is approved for return to service. Pertinent details of this work order are on file at this Certified Repair Station CRS# CDCR140E				
DATE: 12-12-2024 SIGNED:  WORK ORDER: KTKI4524-11-2024 Tim O'Reilly Repair Station No. CDCR140E Printed by EBIS (EBIScloud.com)				

SUB-TOTALS this page

TOTALS-Carry forward to next page

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
TOTALS brought forward from previous page				
Reg#: N98LW Make: Cirrus Date: 3/3/25 Flight: 2230.2 Model: SR22 Hobbs: 2682.6 S/N: 3428				
 Drained oil. Opened and inspected oil filter; no abnormal particulates noted. Installed new oil filter (p/n AA48108-2) and serviced with 8 qts Phillips 20W50 X/C oil. Performed ground run and leak check.				
Jon A. Delamarter, A&P 3035359  3 MAR 2025				
Reg#: N98LW Make: Cirrus Date: 5/12/25 Flight: 2298.9 Model: SR22 Hobbs: 2759.9 S/N: 3428				
 Drained oil. Opened and inspected oil filter; no abnormal particulates noted. Installed new oil filter (p/n AA48108-2) and serviced with 8 qts Phillips 20W50 X/C oil. Performed ground run and leak check.				
Jon A. Delamarter, A&P 3035359  12 MAY 2025				
Reg#: N98LW Make: Cirrus Date: 7/8/25 Flight: 2339.9 Model: SR22 Hobbs: 2805.8 S/N: 3428				
 Drained oil. Opened and inspected oil filter; no abnormal particulates noted. Installed new oil filter (p/n AA48108-2) and serviced with 8 qts Phillips 20W50 X/C oil. Performed ground run and leak check.				
Jon A. Delamarter, A&P 3035359  8 JUL 2025				
Date: 5/14/25 TACH: 2469.3 ACTT: TSMOH: N98LW Drained oil, removed and replaced filter with PN: CH4808-1. Inspected oil screen, opened and inspected oil filter. No defects noted. Added 8 quarts of 20W50 oil. Ran engine and performed leak check. No defects noted. Work performed in accordance with standard shop practices.				
Signature:  Cert: AP 3747132				
Date: 6/4/25 TACH: 2511.4 ACTT: TSMOH: N98LW Drained oil, removed and replaced filter with PN: AA48108-2. Inspected oil screen, opened and inspected oil filter. No defects noted. Added 8 quarts of 20W50 XC oil. Ran engine and performed leak check. No defects noted. Work performed in accordance with standard shop practices.				
Signature:  Cert: AP 3747132				
Date: 6/11/25 TACH: 2560.8 ACTT: TSMOH: N98LW Drained oil, removed and replaced filter with PN: AA48108-2. Inspected oil screen, opened and inspected oil filter. No defects noted. Added 7 quarts of 20W50 oil. Ran engine and performed leak check. No defects noted. Work performed in accordance with standard shop practices.				
Signature:  Cert: AP 3747132				
BARRETT AIRCRAFT COMPANY LLC. WWW.BARRETT-AIRCRAFT.COM				

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MAKE: Cirrus
MODEL: SR22
S/N: 3428
REG. NO: N98LW
ENGINE MODEL: IO-550-N
ENGINE SN: 691409



Cirrus McKinney Service Center
Repair Station No. CDCR140E
1451 Industrial Blvd
McKinney TX 75069

W/O #: KTKI5473-11-2025
DATE: 12-11-2025
TSMOH: 764.0
Flight Time: 2605.3
Hobbs: 2906.6

DATE

TC
TI
SEP

Engine Entries

- Performed an annual inspection of this engine IAW SR22 AMM 05-20 Inspection checklist. Compression check results: 1) 68/80 2) 62/80 3) 68/80 4) 64/80 5) 65/80 6) 70/80. Master orifice reading: 46.
- Inspected Tornado Alley Turbo system in accordance with the Instructions for Continued Airworthiness (22-6460004) Scheduled Maintenance Checklist.
- Changed engine oil and filter, performed Oil Filter Particle Inspection and serviced engine with Phillips 66 20W50 XC IAW SR22 AMM 12-10. Leak check good.
- Performed engine run to verify that the engine parameters for manifold pressure, fuel flow and temperatures are within the specifications of the Tornado Alley Turbo ICA 22-6460004.
- C/W TAT SB12-02 by inspecting the engine driven fuel pump mixture control shaft for fuel leaks. No leaks found.
- Removed and inspected, cleaned the oil supply inlet screens IAW SR22 AMM 71-00 and TAT SB11-04.
- Replaced RH turbo support rod and replaced LH support rod chafe sleeve IAW TAT SB11-03.
- Performed SI11-01 IAW SR22 AMM 5-20 and TAT ICA during annual inspection. Inspected for and found no evidence of binding, damage or deformation at slip joints.
- Complied with AD 2023-09-09 V-Band Clamp Inspection. V-Band clamps were replaced at FLT 2002.8.
- Replaced clevis pin on Slave Waste Gate actuation arm IAW TAT ICA.
- Removed and Replaced #1 Alternator IAW SR22 AMM 24-30. Ops and leak check good.
- Adjusted LH and RH Magneto timing within limits IAW Turbo-normalized per STC's SA10588SC and SE10588SC.

I certify that this Engine has been inspected in accordance with an Annual Inspection and was determined to be in an airworthy condition. Pertinent details of this work order are on file at Cirrus Aircraft McKinney Factory Service Center CRS# CDCR140E.

DATE: 12-11-2025

SIGNED:

Tim O'Reilly
Repair Station No. CDCR140E

WORK ORDER: KTKI5473-11-2025
Printed by EBIS (EBIScloud.com)

DATE

TOTAL
TIME
IN
SERVICE

TOTAL
TIME
SINCE
OVERHAUL

TACH OR
RECORDING
METER
TIME

DESCRIPTION OF WORK PERFORMED—
SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK

TOTALS brought forward from previous page

SUB-TOTALS this page

TOTALS-Carry forward to next page

SUB-TOTALS this page

TOTALS-Carry forward to next page

MSB's Due:

SB2X-76-01
50HR TAT SB08-4
50HR TAT SB09-4
1 YR TAT SB11-4
50HR TAT SI08-0
1 YR TAT SI11-0
1 YR TAT SI11-0
1 YR TAT SI17-0

CK AD's 20
CK SB's 11

Date: 11/26/2024

N#: 98LW

S/N: 3428

Annual Ins
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ELT Remot
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Pilot Seat I
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Time Limit

500 HR Ma
500 HR Ma
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TKS Filter
Battery No.
Alt No. 1
Special AL
Alt No. 2
Alt No. 2 No
Induction fi
Induction F

Anti-ice Pro
Hartzell Pr
Prop Gover
Fuel Boost
Fire Bottle
Muffler and
Engine
Oleo Strut
Evaporator
Magnetom
Electrical B
GSA 80 Yaw
GSA 81 Rol
Adjustment