

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				
11-30-10	653450.0	1957.7		THIS ENGINE MODEL TCM T810 520-E SN 182972-R WAS OVERHAULED BY JASPER POPE ACP 42790 1943 AT QUEST AVE OF GULFPORT, MS 39507 ACCORDING TO FACTORY RECOMMENDATIONS, PROCEDURES, SPECIFICATIONS LIMITS AND PERTINENT FEDERAL AUN REGULATIONS. ALL STEEL PARTS WERE MAGNIFLUXED, AND ALL NON-FERROUS MATERIALS WERE CHECKED FOR CRACKS. ALL THE GUIDELINES FROM THE TCM TABLE OF LIMITS AND OVERHAUL WERE FOLLOWED. AT TIME OF OVERHAUL (TCM FORM NO X30574A) ALL TAGS RECEIVED FROM SUPPLIERS TO INCLUDE 8130-3 FORMS ARE LOCATED AT REAR OF LOG BOOK. THE CRANKSHAFT WAS ULTRASONIC INSPECTED 11/11/10 MSB 96-10, THIS CRANKSHAFT "VAR" COMPLIES WITH AD 97-26-17. REPLACED COUNTER WEIGHT PINS COUNTER WEIGHT BUSHINGS, PISTON AND LOCK RINGS. MAIN AND ROD JOURNALS TURNED TO MO10, WITH NEW BEARINGS INSTALLED. CAMSHAFT RECONDITIONED 11/11/10 PROCEDURES
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11-30-10	Cont			OF AIRCRAFT SPECIALTIES IN'S FAA APPROVED DATA. CONNECTING RODS AND ROCKER ARMS RECONDITIONED. COMPLETE NEW ECI CYLINDERS INSTALLED. NEW SLICK MAGNETOS, HARNESS AND SPARK PLUGS INSTALLED. ALL ENGINE PARTS WERE CLEANED, ALODINED AND PAINTED BEFORE FINAL ASSEMBLY. OIL COOLER FLUSHED AND REINSTALLED. ENG CASE WAS REPAIRED AND CERTIFIED BY CRANKCASE SERVICES INC. ALL RECOMMENDED PARTS PRESCRIBED IN THE TCM OVERHAUL MANUAL AND APPLICABLE AIRCRAFT DIRECTIVES WERE COMPLIED WITH. AT THE TIME OF THIS OVERHAUL, FOR A COMPLETE LIST REFERENCE WORK ORDER NO 201730.
11-30-10	653450.0	1957.7		THIS ENG INSTALLED ON LEFT POSITION CESSNA 401A N386CA \$10401A 0107, WAS SERVICED WITH 11 QTS AEROSHELL MO MINERAL OIL, 1ea CH 48108 FILTER, RAC AND APPROVED FOR RETURN TO SERVICE
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J Pope ACP 42790 1943

SERVICEABLE

Pertinent details of the exhaust system component repairs are on file at this repair station under:

Name Quest Aviat

Work Order No. 104,941

Date 11-18-11

Inspected by Dawley

Dawley Aviation

140 Industrial Dr.
Burlington, WI 53105

1-800-338-5420

FAA CRS No. NJ5R069N

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TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
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778.3	Drained Engine Oil, Serviced With 11 qts Aeroshell W 100, installed 1ea CH 48108 filter, Ran Engine for leaks none noted. J Pope A-P427 901943
09-06-11 6584.0 49.5 2007.2	Drained ENGINE oil, Serviced With 11 qts Aeroshell W 100 oil, installed New 48108 filter, Ran for leaks none noted. J Pope A-P427 901943
11-23-11 6596.2 61.7 2019.4	Removed Left Forward Exhaust Pipe, sent to Dawley for Repair, Reinstalled repaired pipe, ops ok good, return pipe to service, Blaine Will. A-P436983651
01-11-12 6596.6 62.1 2019.8	(1) Removed, SPARK plugs, cleaned, and Reinstalled. (2) performed Compression check, 1) $\frac{68}{80}$ 2) $\frac{72}{80}$ 3) $\frac{74}{80}$ 4) $\frac{70}{80}$ 5) $\frac{72}{80}$ 6) $\frac{70}{80}$ (3) Removal injectors cleaned, and Reinstalled (4) Removal #6 ex exhaust Pipe, Repaired by Dawley Aviation AND Reinstalled "Cont Pg 4"
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01-11-12	6596.1	62.1	2019.8	"Continuation from Pg 3." I certify that this Engine has been inspected I/A/W A 100 hour inspection and is approved for return to Service. J Pope A-P427 901943
06-20-16	6631.5	2054.7	97.0	Drained ENGINE oil, Serviced With 11 quarts Aeroshell W 100 oil, Removed oil filter and installed New CH 48108-1 filter, Torqued & Checked. Engine Ran for leaks, Engine Approved for return to Service. J Pope A-P427 901943
02-7-13	6655.6	121.1	2078.8	Remove spark Plugs and ck, Perform Compression check as follows: 1) $\frac{71}{80}$ 2) $\frac{73}{80}$ 3) $\frac{73}{80}$ 4) $\frac{71}{80}$ 5) $\frac{70}{80}$ 6) $\frac{73}{80}$ C/W AD 2000-01-16 Exhaust system etc, AD-2012-03-06 NA by not installed AD-2012-10-13 NA by not installed clean air filter. I Cert.ify that this Engine Noted oil change Due @ 2104.7 has been inspected I/A/W 100hr inspection and is approved for return to service. Blaine Will. A-P436983651
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3-15-13				Changed oil and filter.
Holtz				Serviced with 11qt. acrosnell
2104.7				W100 Plus. out again filter (NO metal)
				Michael Watson
				ATP 438929507
2-21-14	6,813.5	278.8	2236.5	Removed SPARK PLUGS ON L/H ENGINE. PERFORMED COMPRESSION TEST: #1 76 #2 78 #3 78 #4 76 #5 76 #6 74 PERFORMED MAGNETO CHECK AND VERIFIED PROPER MAGNETO TIMING 20 DEGREES BEFORE TDC. CHECKED GOOD. INJECTORS WERE LEAKING R/R INJECTOR O-RINGS AND COMPRESSION WASHERS. REMOVED AND REPLACED OIL. REMOVED, CLEANED & REINSTALLED FUEL INLET FILTER AND AIR OIL SEPARATOR FILTER. C/W EXHAUST AD 00-01-16 ADJUSTED BALL JOINT COMPRESSION SPRINGS TO .51, REPLACED CRACK R/H HEAT SHIELD AND TURBO HOUSING HEAT SHIELD C/W SB 13-4A FUEL PUMP VERIFICATION
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2-21-14	6,813.5	278.8	2236.5	AFT Exhaust Ducting Pipe heat shield had broken brackets. REPLACED BRACKETS. R/H EXHAUST Ducting clamp was BROKEN, REPLACED WITH NEW. INSPECTED ENGINE HOSES IAW AD 72-14-8. HOSES CHECKED GOOD. REMOVED AND REPLACED VACUUM AIR/OIL SEPARATOR DUE TO OIL LEAK. REMOVED AND REPLACED AIR INDUCTION FILTER. REPLACED AIR INDUCTION CANNISTER CLAMPS. PERFORMED SB SID 97-3F CONTINUOUS FLOW FUEL INJECTION SYSTEM OPERATIONAL CHECK AND ADJUSTMENT. METERED FUEL PRESSURE WAS TO HIGH AT 2700 / 34.5 ADJUST FUEL PSTL FROM 25 PST TO 17.7 IAW SID 97-3F. ENGINE LEAKED GOOD AND OPERATIONAL CHECKED GOOD. GERALD M. L. CONTINUED → GMS ATP 3102834
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2-21-14	6,413.5	2,336.5		I certify this engine has been inspected IAW the 100 ^{hr} ANNUAL inspection requirements and is approved to return to service. Gerald W Mize GND AP 3102834
9-22-16	6,853	280	1048	THIS ENGINE installed Rt position on N1618T on this date. Todd M. Smith AP 2924484 IA Right Engine Log Book Entry for N1618T 22 Sep 16 Airframe Time 1048 Total Time Since Overhaul 280 This engine has been inspected in accordance with the requirements of an annual inspection. Removed, cleaned, gapped, and installed all sparkplugs. Performed compression check of all cylinders, compression results are as follows; 1)75, 2)73, 3)78, 4)76, 5)78, 6)73 /80 psi differential. Performed operational ground test run and all systems performed satisfactory. This engine has been determined to be airworthy. Todd M. Smith AP 2924484 IA
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			N1618T	10-19-2016 Right Engine Hobbs: 1050.0 Drained oil and serviced engine with 11 quarts of aeroshell W100+ Removed and replaced oil filter with new, P/N AA48109. Cut and inspected old oil filter, normal engine wear indicated. Post engine run-up and leak check OK. All work in accordance with C-414 and Continental maintenance manuals. — END — Lance Lanning AP 2734801
				Model TSIO-520-E SN:182972-R Total Time:6840.0
				Date: 10-15-2017 TSMOH:305.3 Hobbs:1074.5
				Performed Annual/100 hr. inspection using TCM MM and FAR 43 App D as guide. Took compression: #1 76/80 #2 74/80 #3 78/80 #4 78/80 #5 78/80 #6 76/80. Drained oil and oil cooler. Removed and inspected oil filter, element, no containments found. Installed new AA48109 oil filter and serviced engine with 12qts of aeroshell 100W-50. Removed, cleaned, and tested all spark plugs, reinstalled & torqued. Checked Mag timing and found both mags set @25 degrees. Set Mag timing to 20 degrees BTC per TCM M.M. and engine data plate. Removed and cleaned all fuel injectors. Replaced "O" rings and upper deck seals as required. Reinstalled injectors and torqued. Removed and inspected induction filter, found in "New" condition. Inspected turbo impeller, no defects, turning freely, reinstalled induction filter. Replaced felt seal on induction filter housing. Sent out Manifold valve and fuel controller to Grate Planes fuel metering for overhaul. Reinstalled overhauled manifold valve PN 63426-4A8 and fuel controller PN 632916-11 WO # 17-367. Installed serviceable oil pump, performed ground run all indications normal. No leaks noted.
				A.D. 2000-01-16 C/W by visual inspection IAW Par B,C&D. No defects noted. Next due 1174.5 or 12 months
				A.D. 76-07-12 rev1 C/W operational check of Bendix ignition switches. No defects noted. Next due 1174.5 or 12 months.
				A.D. 97-01-13 C/W by visual and physical inspection of engine compartment flexible fuel and oil hoses for integrity and condition. No defects noted. Next due 1174.5 or 12 months.
				Performed post inspection ground run. Oil pressure, temperature, mag drop, prop governor check, all normal. No leaks noted.
				I certify that this Powerplant has been inspected IAW an Annual Inspection as required for return on this date. 10-15-2017 Jan Eric Knelson A&P 3791718 I.A. Eric Knelson
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Model: TSIO-520-E Date: 01-15-2019 SN: 182972-R TSMOH: 326.4 Total Time: 6861.1 Hobbs: 1095.6 Performed 100 hr./annual inspection using FAR 43 App. D and TCM maintenance manual as guide. Took compression test hot: #1 75/80, #2 78/80, #3 76/80, #4 76/80, #5 78/80, #6 78/80. Drained oil and oil cooler. Removed and inspected oil filter element. No contaminants found. Installed new CH48109-1 oil filter; serviced with 12 Qts. Phillips 20 W-50 XC. Replaced L/H induction elbow. Removed #2 cylinder due to broken exhaust studs. Sent to Harrison engine services for repair and reinstalled with new piston rings. Sent both mags to Maxwell Mag for repair and 500 hr inspection. Reinstalled and timed to engine. Removed turbo and waste gate, sent to approval turbo components for overhaul. Reinstalled SN: CEN01002 and overhauled waste gate PN: 470908-13 SN: GJR0136 with all new hardware and gaskets as required. Turbo outlet pipe replaced with new Knisley PN: K9910299-2 SN: 82845 A.D 200-01-16 C/W by visual inspection IAW Par. B, C & D. No defects noted. Next due 1195.6 Hobbs or 12 months. Performed post inspection ground run, oil pressure, temp mag drop, prop gov check, all normal, no leaks noted at this time. I certify this powerplant has been inspected IAW an Annual/100 hr. inspection as required for return to service on this date 01-15-2019. Jan Eric Knelson A&P 3791718 I.A. <i>Jan Eric Knelson</i>				
Model: TSIO-520-E Date: 3-20-2020 SN: 182972-R TSMOH: 356.4 Total Time: 6891.1 Hobbs: 1125 Performed 100Hr/Annual inspection using FAR 43 App. D & TCM M.M. as guide. Took Cyl Compression test Hot: #1 76/80 #2 77/80 #3 78/80 #4 78/80 #5 77/80 #6 77/80. Drained Oil & oil cooler, removed & inspected oil filter element, no contaminants found. Installed new CH-48109 oil filter, serviced engine with 12 Qts Phillips 20W-50XC. Cleaned & gapped sparkplugs Rotated & reinstalled. Checked Mag timing set @ 20° BTC. Cleaned fuel injectors, inspected induction filter no defects noted, cleaned fuel servo screen. AD 2000-01-16 CW by visual inspection IAW Par. B, C & D, no defects noted, next due 1225 Hobbs Or 12 months. Performed post inspection ground run, oil press, oil temp, prop gov check, Mag drop All normal, no leaks noted @ this time. I Certify this powerplant has been inspected IAW an Annual/100Hr. inspection as required for return to service on this date 3-20 2020 Jan Eric Knelson A&P 3791718 I.A. <i>Jan Eric Knelson</i>				
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S&S AVIATION N1618T R Engine Logbook Entry Make: TCM Model: TSIO-520 S/N 1829721 Hobbs: 1129. The following was performed IAW The Cessna 414A Maintenance Manual, the TCM Service Manual X-30574A applicable FAR's unless otherwise noted. 1. Removed and replaced absolute pressure controller p/n 470836-9001 s/n YCO-0776A. Completed setup and adjustment. Signed <i>[Signature]</i> Cert. No. A&P27398981A Date 21 May 2020 1 of	
American Aviation Inc. Date: 07-30-2020 Hobbs: 1157.0 Aircraft Reg: N1618T ACTT: 5642 Manufacture: Continental ACTC: Model No.: TSIO-520-E ETSO: 388.4 Serial No.: 182972-R ETSN: Wilkes County Airport (UKF) Drained & Serviced Engine With 40 Qts. 20W/50 X/C Oil. Removed, Inspected & Replaced Oil Filter (48109). Cleaned Engine, Lubricated Waste Gate. Ground Ran Engine Leak Check And Operational Check Good. C'd/W AD2000-01-16 Exhaust System 50 Hour Inspection Para b. Signature, <i>Robert A. Wislick</i> Robert A. Wislick A/P 171549879	
N1618T June 10, 2021 Hobbs: 1194.3 SMOH: 426.3 Complied with the following AD: 78-06-01 Flexible Elbow - C/W by inspection. Next due Hobbs 1294.3. - Differential compression test performed 1 72/80, 2 71/80, 3 68/80, 4 66/80, 5 67/80, 6 64/80. - Verified magneto timing. - Lubed waste gate and exhaust slip joints. - Secured ignition harness wire. - Replaced induction air filter, Donaldson P/N P12-8156 - Adjusted idle mixture and idle RPM IAW TCM SID 97-3G. - Replaced lower spark plugs, Tempest P/N URHB32E. - Changed oil and filter, filled with 11 quarts Phillips X/C Victory 20W-50 and Tempest AA48109 filter. - Ultrasonic cleaned fuel injectors. Reinstalled with new rubber washers, TCM P/N 640612. - Replaced intake gasket at cylinder #4, Superior P/N SSR536413. - Engine run and leak checks performed satisfactory. I certify that this engine has been inspected in accordance with an Annual Inspection and found to be in an airworthy condition. Airworthiness Directives are listed in the AD Compliance Report. <i>[Signature]</i> Scott Gerken 3211721 A&P/IA	
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