



## ENGINE MAINTENANCE RECORDS

Log No. \_\_\_\_\_

Aircraft Registration No. N414TF

Engine Manufacturer Continental

Model TSIO-520-NB

Serial No. 514728

Date installed on aircraft 1-4-2017

Time Between Overhauls (TBO) 1600 Hours

If used on multi-engine aircraft:

Right

Left

Date	In Service	Since Overhaul	Time
1-4-2017	4662.4	0.0	348.8

RAM Aircraft, Limited Partnership • Waco Regional Airport

### CONTINENTAL TSIO-520-NB Series IV Left S/N: 514728

Above referenced engine overhauled to new parts limits per FAR 43.2(a)(1)(2) to conform w/Continental SM X-30574 and Continental M-O Standard Practice Maintenance Manual. Applicable AD's and Service Bulletins X-30574 and Continental M-O Standard Practice Maintenance Manual. Applicable AD's and Service Bulletins X-30574 and Continental M-O Standard Practice Maintenance Manual. All gears cleaned, polished when required, inspected, magnetic particle inspected, and no cracks found. Finish and dimensional limits within RAM Gear Inspection Specification No. 1818, Rev. M dated 01/18/2016. Installed above referenced engine modified to TSIO-520-NB 325 HP per STC SE4327SW-D in left position of Cessna s/n 414A0676. See 337. Installed new RAM camshaft p/n 1058-1A, s/n XD15086 per STC SE4327SW-D. Installed lifters p/n SA628488 int. p/n SA646277 exh. AD 10-11-04 n/a to lifter p/n installed. AD 97-26-17 c/w per installation of overhauled VAR crankshaft p/n 642396 s/n A014M3 per Continental CSB96-8. C/W ultrasonic inspection per MSB96-10B. AD 99-19-01 n/a per crankshaft date of manufacture I/A/W Continental MSB99-3C. AD 2000-23-21 N/A to crankshaft serial number/date of manufacture I/A/W Continental Mandatory Service Bulletin MSB00-5D. Engine assembled with overhauled Continental heavy style crankcase p/n 654128-1, s/n H109802R. Installed new Superior Steel cylinders. Installed Floscan transducer per STC SE5726SW-D. Re-installed Hartzell propeller model PHC-C3YF-2UF, s/n EB2104 repaired and flushed by CRS #WN1R590K. Flushed and re-used customer's vacuum pump S/N 8K178, landing gear hydraulic pump S/N 627 and tach generator S/N AT-12053. Installed new Hartzell ALV 9610 alternator s/n H-Q090799. (weight 12.75 lbs) C/W Hartzell SB064 per torque check of alternator through bolts. Re-check due each scheduled inspection until reaching 250 hours TIS. See weight and balance change entered in P.O.H. Installed RAM overhauled turbocharger p/n 2060-1 s/n H-SEL00086. Installed new RAM FAA-PMA fuel nozzles p/n 2562-14D. Continental Service Bulletin SB06-1A N/A per installation of RAM fuel nozzles. New Slick magnetos p/n 6320 installed per STC SE4651SW-D and pressurized. Slick Service Bulletin SB3-08A N/A to magneto serial numbers installed. Slick Service Bulletin SB1-12 N/A per S/N. MSB94-8D on magneto timing procedure c/w per timing to STC degree requirements with TDC locator and protractor with pointer. Installed RAM FAA-PMA rocker arms p/n 1842-3 and 1842-4, spring loaded induction clamps p/n 1170-2 and double clamps p/n 1170-5, rocker arm cover gaskets p/n 1387-1, and oil cooler baffle p/n 1253-1. AD 2000-01-16 c/w, see airframe log for details. Installed new Aeroquip integral firestepped fuel, oil and hydraulic hoses meeting TSO- C53A Type D and TSO-C75 Type III. Installed overhauled oil cooler p/n 654580, s/n 1753197. C/W AD 78-06-01 per installation of intake tube p/n 642590. C/W AD 79-05-09 per installation of new current design oil pressure plunger assy. C/W AD 89-24-01 R1 per installation of starter adapter p/n 642085A4 with current scavange pump gears. AD 2012-10-13 AND MSB11-4B Starter adapter inspection n/a per p/n installed. C/W AD 93-16-15 per Continental MSB95-6 installation of fuel pump drive coupling p/n 653359. Category 1 thru 3 Continental Service Bulletin Compliance Listing in RAM Manual. Engine serviced with AeroShell 100 mineral oil. See RAM Recommended Oil Grade Maintenance Tip MT-1 for recommended oil. Engine ground run on test stand per RAM specifications for 3 hours. Engine pump pressure, idle, mixture, fuel flow, max RPM, manifold pressure, and oil pressure adjusted per RAM Series IV specifications. Engine ground run power test good. All engine systems checked for leaks. Engine approved for return to service for the work performed. Pertinent details on file under Project No. 8248.

*Robert [Signature]*  
RAM Aircraft, Limited Partnership, P. O. Box 5219, Waco, Texas 76708 CRS VA1R551K

DATE	TOTAL TIME IN SERVICE	TOTAL HOURS

N414TF left  
2/22/17 HM  
78/80 #2 76  
oil and filter  
left engine  
nacelle. Al

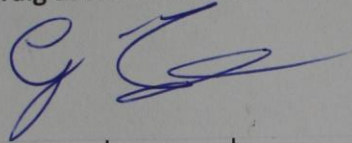
Craig East

Air Professional  
7029 Karl M.  
Waco, Texas  
CRS No. ARO  
On above refer  
leak checked g  
754  
Impress  
CRS ARO

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

N414TF left engine log  
 2/22/17 HM360.0 Completed 100hr inspection. Comp #1 78/80 #2 76/80 #3 80/80 #4 74/80 #5 80/80 #6 78/80 , Change oil and filter install 12 Aeroshell 80w, Tighten main fuel line left engine. Remove Loose hardware behind left engine nacelle. Above approved for return to service.

Craig Easter A&P 3555683

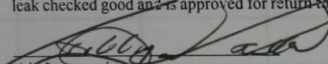



7929 Karl May Dr.  
 Waco, Texas 76708  
 CRS No. AK6R541N

Aircraft HM: 412.0  
 Date: 10/18/2017

Continental TSIO-520-NB (RAM Series IV) S/N L-514728

On above referenced engine, performed set-up of systems per Continental and RAM Specs for Series IV. Engine ground run-up leak checked good and is approved for return to service for maintenance performed. Pertinent details on file under work order 4568.

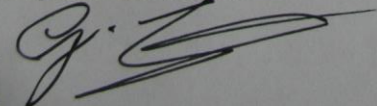


Air Impressions, Inc.  
 CRS# AK6R541N

N414TF left engine log

10/11/17 Hm 410.0 Adjusted fuel pump high side pressure to Ram specifications. Engine ground run with all normal indications. Above approved for return to service.

Craig Easter A&P 3555683





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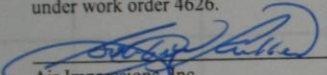


7929 Karl May Dr.  
Waco, Texas 76708  
CRS No. AK6R541N

Engine TT: 4778.6  
Engine SMOH: 116.2 (1/2017)  
Prop SMOH: 462.9 (7/2011)  
Hour Meter: 465.0  
Date: 03/20/2018

**Continental TSIO-520-NB RAM SIV S/N L-514728**

On above referenced engine, removed cowling for 100 Hour/Annual Inspection. Cleaned and rotated spark plugs. Drained oil, installed new oil filter and refilled engine with Phillips XC 20W-50 oil. Checked magneto timing. (See tag.) Inspected plug harness and all engine electrical. Checked all engine controls for movement and attach points. Inspected intake and exhaust system, condition and integrity of all engine accessories. Inspected engine mounts, all baffles, and cowling. Inspected prop, spinner, and bulkhead. Inspected all fuel, oil and hydraulic lines and fittings. Ran compressions and readings were: 1) 79/80, 2) 75/80, 3) 78/80, 4) 55/80, 5) 79/80, 6) 79/80. Replaced induction clamp at #2 cylinder. Installed overhauled hydraulic pump, P/N 24194-LAA, S/N 68898. C/W A.D. 2000-01-16 per paragraphs (b), (c) and (e). (Paragraph (b) next due at 515.0 H.M.) A.D.'s researched through bi-weekly 2018-04. Above work done in accordance with Continental and Cessna Service Manuals and Air Impressions, Inc. 100 Hour/Annual Checklist. Engine ground run-up leak checked good and approved for return to service. Pertinent details are on file under work order 4626.

  
Air Impressions, Inc.  
CRS# AK6R541N



7929 Karl May Dr.  
Waco, Texas 76708  
CRS No. AK6R541N


I certify this Engine has been inspected in accordance with a 100 HR. Inspection and has been determined to be in an airworthy condition.

DATE 03/20/2018 HM 465.0

ENGINE SMOH 116.2 (1/2017)

ENGINE TT 4778.6

WORK ORDER #4626

SIGNED   
AIR IMPRESSIONS, INC  
REPAIR STATION # AK6R541N

SUB-TOTALS this page

TOTALS—Carry forward to next page

