



ENGINE MAINTENANCE RECORDS

Aircraft Registration 450 YR

Engine Position _____

Engine Serial No. 578959



ENGINE MAINTENANCE RECORDS

Log No. _____

Aircraft Registration No. 450 VR

Engine Manufacturer TCM

Model I0-520-BB

Serial No. 578959

Date installed on aircraft 06/07/11

Time Between Overhauls (TBO) 1700 Hours

If used on multi-engine aircraft:

Right Left

Waco Regional Airport • P.O. Box 5219 • Waco, Texas 76708

254/752-8381

FAX 254-752-3307

1-800-445-9713

| 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 |
|------|-----------------------|---------------------------|------------------------------|---|
|------|-----------------------|---------------------------|------------------------------|---|

| Date | Total Time In Service | Total Time Since Overhaul | Tach or Recording Meter Time |
|---------|-----------------------|---------------------------|------------------------------|
| 4-29-11 | 2016.9 | 0 | |



RAM Aircraft, Limited Partnership • Waco Regional Airport

TCM IO-520-BB Engine S/N 578959

Above referenced engine overhauled to new parts limits per FAR 43.2(a)(1)(2) to conform w/TCM X30039A and I/AW STC SE7325SW-D. Applicable AD's and Service Bulletins C/W at this time. All gears cleaned, polished when required, inspected, magnafluxed, and no cracks found. Finish and dimensional limits within RAM Gear Inspection Specification No. 1818, Rev. K dated 2-08-2010. Installed new RAM camshaft P/N 1058-1A, S/N XL10037 as direct PMA replacement of TCM camshaft. Installed lifters p/n 658088 int. p/n 658077 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 E479 per TCM CSB96-8. C/W ultrasonic inspection per MSB96-10A, due at next overhaul or when crankshaft removed. AD 99-19-01 C/W and found N/A per crankshaft date of manufacture I/AW TCM MSB99-3C. AD 2000-23-21 N/A to crankshaft serial number/date of manufacture I/AW TCM Mandatory Service Bulletin MSB00-5D. Engine assembled with overhauled crankcase P/N 654132-2, S/N 851440BE. Installed new ECI Titan Nickel cylinders. Cylinder hold-down nuts replaced and torqued per Overhaul Manual Supplement. AD 88-17-03 is N/A per no air conditioning installed. Installed .030 inch undersize starter adapter spring P/N S539800M30 per STC SE09846SC. Installed General Aviation Modifications, Inc. turboGAMIjectors kit No. GAD13A, S/N 20820 per STC SE09217SC. Installed new oil cooler P/N 8000960, S/N 2083340. Engine accessories exchanged for overhauled or new units with exception of prop governor and vacuum pump which were not installed per this work order. SB09-4A Permold crankcase inspection with A/C N/A per crankcase rib thickness. Slick magnetos P/N 6310 installed. Service Bulletin SB3-08A N/A to magneto serial numbers installed. MSB94-8D on magneto timing procedure C/W per timing to data plate TC degree requirements with TDC locator and protractor with pointer. Installed RAM/FAA/PMA rocker arms P/N 1842-3 and 1842-4. AD 98-01-08 N/A per installation of RAM/FAA/PMA rocker arms. Category 1 thru 3 TCM Service Bulletin Compliance Listing in RAM Manual. Above referenced engine eligible for 1700 hr. TBO per TCM SIL98-9 Rev. A. Installed RAM/FAA/PMA rocker arm cover P/N 2766-1. Installed RAM/FAA/PMA rocker arm cover gaskets P/N 1387-1. Installed RAM/FAA/PMA spring loaded induction clamps P/N 1170-2. Aluminum alloy engine parts were coated per RAM Specifications No. 1142. Engine ground run on test stand per RAM specifications for 4 hours. Engine run-in with Phillips 20W-50 Type M mineral oil. See RAM Recommended Oil Grade Maintenance Tip MT-1 for recommended oils. Engine approved for return to service for the work performed. Engine preserved per Service Bulletin SIL99-1 temp. storage up to 90 days. Pertinent details on file under Project No. 5703.

RAM Aircraft, Limited Partnership, P.O. Box 5219, Waco, Texas 76708 CRS VA1R551K

06/07/11 N450YR Tach 1733.5 ETT 2016.9 TSMOH 0.00 This engine installed on Beechcraft CE-978 using all new lord mount's and hardware, all new liquidline's installed (oil & fuel), baffeling repaired and painted, all new baffle seal's installed, new muffler's and tail pipes installed, overhauled prop governor installed (see maintenance release in folder), installed overhauled standby generator (see 8103-3), replaced propeller after overhaul (see prop log), replaced induction air filter and duct, replaced fresh air duct, replaced battery box air duct and standby generator fresh air duct, ran engine checking for leak's and operation, no fuel or oil leak's noted, test flew for 1 hr. and reinspected for leakage, none noted, replaced intake air filter's and inline filter's for vacume system. I certify that this engine has been inspected IAW an annual inspection and was determined to be in an airworthy condition. Ellis D. Medlen

A&P3467450 IA

| 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 |
|---------|-----------------------|---------------------------|------------------------------|---|
| 7-8-11 | 1748.0 | | | Changed oil & filter using 10 qts Phillips 20W50 Mineral & CH 48108 filter. Ellis D. Medlen A&P 3467450 <i>TOTALS brought forward from previous page</i> |
| 3-20-11 | 1780.2 | | | Changed oil and filter using 10 qts Phillips 20W50 Mineral oil & CH 48108 filter. Ellis D. Medlen A&P 3467450 |

Texarkana Aircraft Maintenance LLC
48 Globe Ave., Texarkana, AR 71854

1-November-2012 A/C T T 1810.64
Beech F33A Bonanza, N450YR, S/N CE-978

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Cleaned, gapped and rotated spark plugs, checked engine timing, performed engine run up, operation normal at all speeds. Compression leak down checked as follows, # 1 76/80, # 2 76/80, # 3 75/80, # 4 72/80, #5 68/80, #6 74/80. Engine compressions checked as per Continental SB03-3, all compressions found within the acceptable cylinder pressure leakage limit of 48/80 for atmospheric conditions at the time the leak down test was performed.

I certify that this Engine and propeller has been inspected in accordance with a 100-hour inspection and was found to be in airworthy condition. _____ END _____


Jerry M. Garrett

A&P 2688220

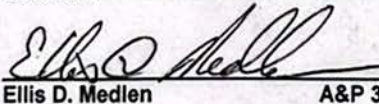
Date 11-01-2012

Texarkana Aircraft Maintenance LLC
48 Globe Ave., Texarkana, AR 71854

1-November-2012 A/C T T 1810.64
Beech F33A Bonanza, N450YR, S/N CE-978

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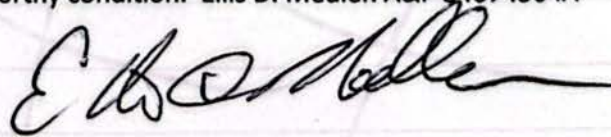
I certify that this Engine and propeller has been inspected in accordance with an annual inspection and was found to be in airworthy condition. _____ END _____


Ellis D. Medlen

A&P 3467450 IA

Date 11-01-2012

02/21/14 N450YR Tach 1882.0 ETT 2165.4 TSMOH 148.5 Changed oil and filter using 10 qts. Phillips 20W50 X/C and CH 48108-1 filter, compression checked (#1) 72, (#2) 73, (#3) 73, (#4) 74, (#5) 76, (#6) 74/80. I certify that this engine has been inspected as per an annual inspection and was determined to be in an airworthy condition. Ellis D. Medlen A&P 3467450 IA



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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 |
| 03/21/15 | N450YR | Tach 1914.6 | ETT 2198.0 TSMOH 181.1 | Changed oil and filter using 10 qts. Phillips 20W50 X/C and CH 48108-1 filter, compression checked (#1) 69, (#2) 70, (#3) 71, (#4) 69, (#5) 70, (#6) 74/80. I certify that this engine has been inspected as per an annual inspection and was determined to be in an airworthy condition. Ellis D. Medlen A&P 3467450 IA <i>Ellis D. Medlen</i> |
| 4-8-16 | | Tach 1949.5 | TSMOH 216.0 | Changed oil and filter using 10 qts 20W50 Phillips X/C and CH 48108-1 filter, cleaned gapped & rotated plugs, compression checked (#1) 71, (#2) 75, (#3) 70, (#4) 72, (#5) 72 (#6) 73/80. I certify that this engine has been inspected in accordance with an ANNUAL inspection and was determined to be in an airworthy condition. <i>Ellis D. Medlen A&P 3467450 IA</i> |
| 5-17-17 | | Tach 2028.1 | Eng. Total Time 2311.3 TSMOH 294.6 | Changed oil and filter using 10 qt. Phillips 20W50 and CH 48108-1 filter, compression checked 73/80 or better on all cylinders, cleaned gapped and rotated plugs, checked eng. by test run, no leaks found & functions normal. I certify that this engine has been inspected in accordance with an Annual inspection and was determined to be in an airworthy condition. <i>Ellis D. Medlen</i> A&P 3467450 IA |

06/15/2018 Tach 2067.4 Engine Total Time 2360.8 TSMOH 343.9 Changed oil and filter using 10 qts. Phillips X/C and CH 48108-1, cleaned gapped and rotated plugs, compression checked (#1) 70, (#2) 71, (#3) 70, (#4) 72, (#5) 73, (#6) 70/80. I certify that this engine has been inspected in accordance with an annual inspection and was determined to be in an airworthy condition.
Ellis D. Medlen A&P3467450 IA

Ellis D. Medlen

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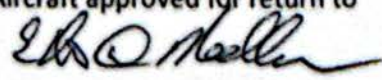
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08/18/2020 Tach reads 2181.2 Eng. T.T. 2464.6, TSMOH 447.7 Removed damaged heat shield from right hand muffler, repaired and reinstalled, drained oil to replace leaking quick drain valve with new S6250 valve and replaced oil in engine, cleaned gapped and rotated spark plugs, compression #1 71, #2 65, #3 70, #4 63, #5 66, #6 64/80. I certify that this engine has been inspected in accordance with an annual inspection and was determined to be in an airworthy condition.

Ellis D. Medlen A&P3467450IA



10-18-2021 Tach reads 2216.1 Removed part #36-380070-3 Man/press fuel flow indicator and sent to Pacific Southwest Instruments in Corona, Calif. for repair and reinstalled same unit after overhaul (see 8130-3 dated 30/Sept/2021) , replaced defective flow transducer with new 102-389012-11 (see 8130-3 dated 14/oct/2021), test ran engine checking for leaks and operation and found no leaks and proper flow indication. Aircraft approved for return to service for work performed. Ellis D. Medlen A&P 3467450



N450YR 01/15/22 Tach 2230.7 Changed oil and filter using 11 qys. Phillips 20W50 oil and CH48108-1 filter, installed E-Z heat Engine heater to pilot side of engine oil pan.

Ellis D. Medlen A&P 3467450



02/04/2022 N450YR Tach 2230.7 Replaced Battery with new G242D Serial # 603117616. Ellis D. Medlen
A&P 3467450

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