



ENGINE MAINTENANCE RECORDS

Log No. _____

Aircraft Registration No. N.1486M

Engine Manufacturer CONTINENTAL

Model 0.470.S

Serial No. 463505

Date installed on aircraft April 1 2010

Time Between Overhauls (TBO) - 0 - Hours

If used on multi-engine aircraft:

- | | |
|--------------------------------|-------------------------------|
| <input type="checkbox"/> Right | <input type="checkbox"/> Left |
| <input type="checkbox"/> Front | <input type="checkbox"/> Rear |



AEROTECH PUBLICATIONS INC.

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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
3/20/2010	4583.8	0	502.0	TOTALS brought forward from previous page

THIS ENGINE O-470-S(1) S/N 453505 MAJOR OVERHAULED AT THIS TIME IN ACCORDING TO FACTORY RECOMMENDED. ALL GUIDES FROM THE TELEDYNE CONTINENTAL OVERHAUL MANUAL WAS FOLLOWED AT TIME OF OVERHAULED.

ALL STEEL PARTS WERE MAGNAFLUX BY AVIATION PROPELLER, INC CERT# ME4R359M. CRANKSHAFT WAS MAGNAFLUX AND ULTRASONIC BY D&S CAM CORP. CRS # D13R133Y. ALL NON-FERROUS MATERIAL WAS DYE-CHECKED FOR CRACKED. CAMSHAFT WAS OVERHAULED BY AIRCRAFT SPECIAL SERVICES INC. CRS # DD2R764K. OIL COOLER WAS FLUSH. MAGNETOS ARE FACTORY NEW SLICK L-1318. CARBURETOR OVERHAULED BY AVSTAR CRS # V1RR580Y

THE FOLLOWING PARTS WERE INSTALLED

- | | | | |
|----------------|------------------|----------------|---------------------|
| 1 646589A1M10 | MAIN BEARING SET | 12 630826M10 | ROD BEARINGS |
| 12 SA35972 | ROD BOLT | 12 SA626140 | ROD NUT |
| 6 SA640518P15 | PISTON | 6 SA4000SC2P15 | RING SET |
| 1 SA536092A10 | GASKET SET | 1 SA641250 | NOSE SEAL |
| 4 SA350998 | BUSHING | 8 SA639193 | BUSHING |
| 2 SA643626-101 | ROLLER | 2 SA643626-104 | ROLLER |
| 8 629104 | RET RING | 8 643629 | RET PLATE |
| 6 653877 | EX LIFTER RG | 6 653888 | INT. LIFTER RG |
| 6 SA539467 | PISTON PIN | 6 SA530658 | BUSHING |
| 6 SA539988 | INTAKE VALVE | 12 RHM40E | SPARK PLUGS |
| 12 MS24665-279 | COTTER PIN | 1 X13041 | BEARING |
| 1 534685 | BEARING | 1 641368 | BEARING |
| 1 CSM538000M43 | SPRING | 12 SA 652984 | AXLE |
| 6 655771 | EX VALVE | 6 SA643767 | EX GUIDE |
| 6 SA643766 | IN GUIDE | 25 SA24802 | KEY |
| 24 SA401893 | STUDS | 12 SA631521 | SPRING |
| 12 SA637837 | SPRING | 6 SA646985 | SEAL |
| 6 SA629117-1 | ROTOCOIL | 1 K6320-32 | IGN KIT W/ CHAMPION |

THIS ENGINE WAS TEST RUN IN ACCORDANCE WITH TCM S/B M89-7R1. THIS ENGINE IS AIRWORTHY AND RETURNED TO NORMAL SERVICE.

ALL AIRWORTHINESS DIRECTIVES ARE COMPLIED WITH AT THIS TIME.

DATE 3/20/2010
T.T.E 4583.8
SMOH 0000.0
HOBS 502.0

FLIGHTLINE ENGINES & SERVICES INC
FRANK NEVES A&P 3411744

ENG

4/1/10

- 0 -

502.0 Hobbs - installed Eng IAW Mi. Manual
Section 11. Services with 10q15 motor oil &
champ. 48110-1 Retor - operational check, no leaks found
I Certify this A/C eng has been inspected IAW An. Annual
inspector & was determined to be in Airworthy Condition

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4/20/10		15		517 Hobbs - performed Compression check - All $\frac{78}{80}$ drained mineral oil - Serviced with Phillips 20/50x/1 & ch 48110-1 oil filter - R/S Klah
4/29/10				5229 Hobbs removed 216cc Volume Pump installed temporarily Met AA3216cc 90 60995 - performed functional test: no leaks detected. R/S Klah
5/1/10				5647.9 Hobbs Compression $\frac{1}{78} \frac{2}{78} \frac{3}{76} \frac{4}{78} \frac{5}{76} \frac{6}{80}$ drained oil & Serviced with 90/5 Phillips x2750 cleaned / 6000 plugs - Retime mag to 22° - perform leak check - this Eng has been inspected in Alaska with an Annual inspection as outlined in CFRM 43 And was determined to be in Airworthy Condition Klah 3474127 IA
8/6/11				5699.0 DRAINED OIL, removed ch 110 & Replaced with same. Serviced with 90/5 Phillips x200/50 leak check - No other Klah 3474127 A/P
12/23/11				4758.7 DRAINED OIL RTR ch 110 filter - Serviced with 100/5 Phillips 20/50. Cleaned / 6000 Spark plugs - Rotax 50 - leak check R/S - No other Klah 3474127 A/P
4/20/12				5848.6 Drained oil RTR ch 110 filter Serviced i 100/5 Phillips 20/50x - No leaks R/S Klah 3474127 A/P
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6/1/12				<p>Hobbs ϕ 858.5 Compression test $\frac{1}{68} \frac{2}{10} \frac{3}{10} \frac{4}{74} \frac{5}{70} \frac{6}{74}$ Removed #2 & #3 cylinder door to low compression Services by Centuro (see 6130i) Reinstalled Cleaned/gap/rotate plugs - Run up to leak #2 76 - #3 78/80 - Adjusted \angle Mag to 22°. Inspected Air filter - This Eng has been inspected into An Annual inspection & determined to be in Airworthy Condition KLUH 3474127 JA</p>
1/3/13				<p>Hobbs ϕ 953.7. Compression test $\frac{1}{64} \frac{2}{72} \frac{3}{68} \frac{4}{74} \frac{5}{72} \frac{6}{72}$ Clean plugs - rotate, checked timing, drained oil - Replaced 10q15 x/c 2050 phillips & 110 filter Run & checked for leaks - RB KLUH 3474127 Ajo</p>
7/2/13				<p>Hobbs 1043.4 Compression $\frac{1}{72} \frac{2}{70} \frac{3}{70} \frac{4}{70} \frac{5}{72} \frac{6}{72}$ Cleaned/gap & rotated plugs - checked timing inspected Anderson. Drained oil & services 8q15 Phillips x/c 2050 & 110 filter - This Eng has been inspected into An Annual inspection CPE 43 has determined to be in Airworthy Condition KLUH 3474127 JA</p>
8/29/13		ϕ 576.2		<p>Hobbs 1078.2 Drained & Services oil - 10q15 phillips x/c 2050 - R3R ch 110 filter checked for leaks - KLUH 3474127 Ajo</p>
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10/26/13		6617.6		Hobbs 1109.9 Removed #2 cylinder due to crack - installed cylinder Assy (wo #41847). Functionally tested - no leaks - compression 78/80 Returned to Service. KLUH 3474127 A/p
4/28/14				Hobbs 1210.5 Drained oil & R/R Champion 110 filter - Service - 10 qts phillips xc 20/50 leak check - 275 KLUH 3474127 A/p
9/11/14	660.3	5244.1		Hobbs 1244.8 Compression $\frac{1}{68}$ $\frac{2}{70}$ $\frac{3}{68}$ $\frac{4}{70}$ $\frac{5}{72}$ $\frac{6}{72}$ cleaned Rotated plugs - Retime @ Mag 6 22° This eng was inspected IAW CAR 14 43D Annual ins And was determined to be in Airworthy Condition KLUH 3474127 A/p
21.6.15		5300		Hobbs 1303.6 Drained oil R/R Champion 110 - Service - 10 qts phillips xc 20/50 - leak check. KLUH 3474127 A/p
10/10/15	944	5339.1		Hobbs 1333.8 Compression $\frac{1}{68}$ $\frac{2}{68}$ $\frac{3}{70}$ $\frac{4}{68}$ $\frac{5}{72}$ $\frac{6}{72}$ clean gap & check resistance - Rotated - checked timing - This eng was inspected IAW CAR 14 43D Annual And was determined to be in Airworthy Condition KLUH 3474127 I/p
11/11/16	6748	5342.1		Hobbs 1337.5 Compression $\frac{1}{72}$ $\frac{2}{68}$ $\frac{3}{68}$ $\frac{4}{70}$ $\frac{5}{70}$ $\frac{6}{74/80}$ clean gap Rotated plugs & leak timing - This eng was inspected IAW CAR 14 43D ^{Annual} I certify that this eng to be in Airworthy Condition KLUH 3474127 I/p
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Engine Logbook Entry
N1486M
Date: May 18, 2017

RamAir Aircraft Maintenance
Model: TCM O-470
Tach: 389.3

Work Order #261
Serial No.: 463505

1. Performed Cylinder Compression Test with the Following Results: Cyl # 1-61/80, # 2-74/80, # 3-70/80, # 4-74/80, # 5- 62/80, and # 6- 78/80.
2. Removed and Replaced all Spark Plugs With New P/N RHM40E
3. Removed and Replaced Magneto with New P/N. 6310, S/N 17041222
4. Washed Down Engine and Cowlings.
5. Ground Ran Engine, Found Satisfactory.

Daniel Ram A&P 111689132 

Engine Logbook Entry
N1486M
Date: December 03, 2017

RamAir Aircraft Maintenance
Model: TCM O-470-S
Tach: 0405.7

Work Order #373
Serial No.: 463505
TSMOH: 767.3

1. Performed Cylinder compression with the following results: Cyl # 1-75/80, # 2-76/80, # 3-75/80, # 4-73/80, #5- 46/80 and #6- 75/80.
2. Removed #5 Cylinder P/N 653444-O-470-S and Repaired/Serviceable by Certified Engine Unlimited Under Work #49609-000 and Replaced
3. Removed Cleaned and Gapped all Spark Plugs
4. Drained Oil, serviced Engine with 9 Qts of Aeroshell 15W-50, new Champion Oil Filter Part No.: CH48110-1, and Inspected Oil Screen as required as per MM, found Satisfactory.
5. Washed Down Engine and Cowlings.
6. Ground Ran Engine and check for any leaks, Found Satisfactory.
7. Complied with All Biweekly thru 2017-24 and All A.D's as required.

I certify that this Engine has been Inspected IAW ANNUAL/ 100 Hrs inspection as per FAR Part 43 Appendix "D" and has been determined to be in Airworthy Condition. Return Engine to Service.

Daniel Ram IA 111689132 

Engine Logbook Entry
N1486M
Date: January 4, 2019

RamAir Aircraft Maintenance
Model: TCM O-470-S
Tach: 498.4

Work Order #613
Serial No.: 463505
TSMOH: 860.0

1. Performed Cylinder compression with the following results: Cyl # 1-60/80, # 2-77/80, # 3-63/80, # 4-78/80, #5- 70/80 and #6- 72/80.
2. Removed Cleaned and Gapped all Spark Plugs
3. Drained Oil, serviced Engine with 9 Qts of Aeroshell W100 Plus, new Champion Oil Filter Part No.: CH48110-1, and Inspected Oil Screen as required as per MM, found Satisfactory.
4. Washed Down Engine and Cowlings.
5. Ground Ran Engine and check for any leaks, Found Satisfactory.
6. Complied with All Biweekly thru 2019-01 and All A.D's as required.

I certify that this Engine has been Inspected IAW ANNUAL/ 100 Hrs inspection as per FAR Part 43 Appendix "D" and has been determined to be in Airworthy Condition. Return Engine to Service.

Daniel Ram IA 111689132 

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Engine Logbook Entry
N1486M
Date: February 10, 2020

RamAir Aircraft Maintenance
Model: TCM O-470-S
Tach: 585.4

Work Order #796
Serial No.: 463505
TSMOH: 947.0

1. Performed Cylinder compression with the following results: Cyl # 1-30/80, # 2-77/80, # 3-63/80, # 4-76/80, #5- 70/80 and #6- 72/80.
2. Drained Oil, serviced Engine with 9 Qts of Aeroshell W100 Plus, new Champion Oil Filter Part No.: CH48110-1, and Inspected Oil Screen as required as per MM, found Satisfactory.
3. Removed #1 Cylinder and Replaced after repaired
4. Removed and Replaced 2 Cowling Mount
5. Removed and Replaced Engine Mount Kit with P/N J6545-1
6. Removed Cleaned, Gapped all Spark Plugs and Replaced
7. Washed Down Engine and Cowlings.
8. Ground Ran Engine and check for any leaks, Found Satisfactory.
9. Complied with All Biweekly thru 2020-03 and All A.D's as required.

I certify that this Engine has been Inspected LAW ANNUAL/ 100 Hrs inspection as per FAR Part 43 Appendix "D" and has been determined to be in Airworthy Condition. Return Engine to Service.
 Daniel Ram IA 111689132

Engine Logbook Entry
N1486M
Date: June 11, 2020

Model: CONTINENTAL O-470-S
Tach: 595.0 TSO: 956.6

S/N: 463505

Replaced carburetor Model # MA-4-5 P/N 10-4893-1 S/N MS0DWL11 Overhauled
Replaced magnetos kit P/N K6320-40 see 8130 Run engine check for drop and performance and was found in airworthy condition

A&P 267990065


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