

# Engine Record General Information

Manufacturer C.M.I. Model 0470M

Serial 51038-5-M Type Certificate \_\_\_\_\_

This engine is currently installed in aircraft: N 3641D

Minimum Octane Fuel \_\_\_\_\_ Oil Grade Summer \_\_\_\_\_ Winter \_\_\_\_\_

Magneto Time 24° BTC L&R Point Setting \_\_\_\_\_ Firing Order \_\_\_\_\_

Spark Plug Gap \_\_\_\_\_

Manufacturer's Recommended Overhaul at 1500 hours / 12 YRS

RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	<b>Description of Inspections, Tests, Repairs and Alterations</b> Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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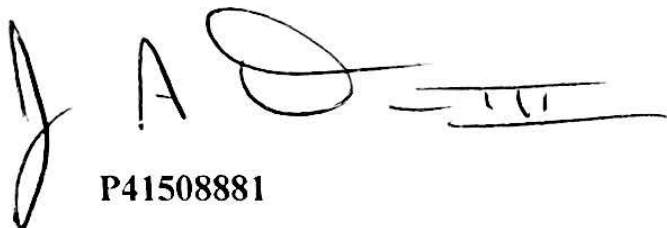
M626189 OIL COOLER S.N. CC00-3774-6, 1 402141 STUD, 2 531178 RETAINER, 4 655269 CUSHION, 4 535847 CLAMP, 1 800M030 SPRING, 1 641368 BRG., 1 X13041 BRG., 1 534685 BRG., 1 SA501867 TAB-LOC, 1 631252 WORM GEAR FT, 1 536552 SPRING, 1 534980 SLEEVE, 1 CAM653749P060 GASKET/STARTER ADAPTER SPECIAL, 3 648028 CON (CYLINDERS 1,3,2), 2 654829 PISTON (CYLINDERS 4,6), 1 AEC654721 PISTON (CYLINDER 5), 48 534609 WASHER, 24 653188 THRUST WASHER, 12 SA520129 BUSHING, 10 542917-1 CLAMP, 2 629163-5 CLAMP, 12 M674 GASKET, 1 401893 STUD, 2 629077 SLEEVE, 1 632563 OIL PUMP BODY (NEW STYLE) OVERHAULED BY DIVCO, INC. P. 06601

**A.D.'S:**

- 79-05-09 N.A. X CURRENT DESIGN VALVE INSTALLED/ .990" VALVE & 2.520" SCREW
- 96-12-22 N.A. X NO CESSNA OIL FILTER ADAPTER INSTALLED
- 99-19-01 AND 00-23-21 N.A. X CRANKSHAFT S.N. (INSTALLED CRANK S.N. 870753)
- 07-04-19R1, 14-05-29 AND N.A. X NO SUPERIOR CYLINDERS INSTALLED ON THIS ENGINE
- 09-19-07 N.A. X NO CONTINENTAL EQ3 CYLINDERS INSTALLED ON THIS ENGINE
- 16-16-12 N.A. X ENGINE MODEL

TEST RUN AND FLIGHT TEST IN ACCORDANCE WITH S.B. M89-7R1 (THIS BULLETIN HAS BEEN INCORPORATED IN CONTINENTAL PUBLICATION M-0 STANDARD PRACTICE MANUAL)

DETAILS ON FILE AT PINE MOUNTAIN AVIATION L.L.C. W.O. 2291  
 TEL. 203-730-0771

  
 P41508881

11/5/16  
HOBBS 1523.5  
0 HRS. S.M.O.H.

MAJOR OVERHAUL CONTINENTAL ENGINE MODEL O470M S.N. 51038-5-M TO FACTORY NEW LIMITS WITH REFERENCE TO C.M.I. O470 OVERHAUL MANUAL P.N. X30586A, PARTS CATALOG FORM # X30587A, STANDARD PRACTICE MANUAL PUBLICATION # M-0 ALONG WITH APPLICABLE SERVICE BULLETINS. CRANKCASE OVERHAULED BY CRANKCASE SERVICES, INC. W.O. 21208. CRANKSHAFT OVERHAULED BY AIRCRAFT ENGINE AND ACCESSORY CO., INC. W.O. 169909, COUNTERWEIGHTS OVERHAULED AND ASSEMBLED ON CRANKSHAFT BY AIRCRAFT ENGINE AND ACCESSORY CO., INC W.O.'S 182520 AND 182521 THEN BALANCED BY BARRETT PRECISION ENGINES, INC. W.O. 11968, LIFTERS (6) P.N. 628488 (INTAKE) OVERHAULED BY AIRCRAFT ENGINE AND ACCESSORY W.O. 182522, EXHAUST LIFTERS (6) REPLACED WITH NEW SUPERIOR P.N. 646277, CAMSHAFT OVERHAULED BY AIRCRAFT ENGINE AND ACCESSORY CO., INC W.O. 182518, CYLINDERS 1,3,5 (CHROME BORE) OVERHAULED BY PINE MOUNTAIN AVIATION LLC W.O. 1802, CYLINDERS 2,4,6, (CHROME BORE STUD ASSEMBLIES) OVERHAULED BY GIBSON AVIATION W.O. 105926 AND ASSEMBLED WITH VALVES BY J & J AIR PARTS, INC. W.O.'S 74798, 74799, 74800, CONNECTING RODS OVERHAULED BY RICK ROMANS, INC. W.O. 48739,

**ACCESSORIES:**

RIGHT MAGNETO P.N. 10-500566-1 S.N. 319201 REINSTALLED/NO OVERHAUL  
LEFT MAGNETO P.N. 10-500566 S.N. 318128 REINSTALLED/NO OVERHAUL  
CARBURATOR P.N. 391572-7 S.N. 852440 INSPECTED AND REPAIRED BY D & G SUPPLY

W.O. 30029

FUEL PUMP P.N. RG15980 S.N. F-72776 OVERHAULED BY D & G SUPPLY W.O. 32774

**PARTS:**

6 656990 BOLT, 4 654589 BOLT, 12 654487 NUT, 12 655960 ROD BOLT, 1 SA641250 SEAL, 12 630826M010 BRG., 1 EQ7022 STUD KIT, 1 SA537401A3M10 BRG. KIT, 4 538989 WASHER, 12 25171 WASHER, 1 537432 CAM GEAR, 1 657175 CRANK GEAR (SVB.), 1 537721 BRG., 2 633334M010 BRG., 48 SA531001 BASE NUT, 16 SA652541 BASE NUT, 2 641361 PLATE, 4 628321-.38, 1 10-9003 BRACKET, 5 627433 BOLT, 2 MS20074- 04-03 BOLT, 2 MS20074-04-04, 4 501868 TAB-LOC, 1 CR6767 SEAL, 1 646546A1 GASKIT SET, 1 532432 PLUG, 2 538468 BUSHING, 1 640620-9 OIL CAP,

CONT. NEXT PAGE:

YEAR 20 DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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TEST RUN AND FLIGHT TEST IN ACCORDANCE WITH S.B. M89-7R1 (THIS BULLETIN HAS BEEN INCORPORATED IN CONTINENTAL PUBLICATION M-0 STANDARD PRACTICE MANUAL)

DETAILS ON FILE AT PINE MOUNTAIN AVIATION L.L.C. W.O. 2291

TEL. 203-730-0771

  
P41508881

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ENGINE MODEL O-470 M  
ENGINE S/N (R)  
51038-5-M  
REG NO N3641D  
WORK ORDER  
2219-10-2016



**Hilt Aviation**  
22 Jetway Drive  
Albany NY 12211  
Phone: 518.618.0750

DATE 11/2/2016  
A/C TSN 2403 7  
ENG TT (R) 0  
TSMOH (R) 0  
HOBBS 1523 5

**Right Engine Entries**

INSTALLED THIS ENGINE ON N3641D, CESSNA 310 SN: 35341. SERVICED WITH (11) QTS AEROSHELL 80 MINERAL C/W TCM S B M89-7R1 GROUND RUN OPS AND LEAK CHECK SATISFACTORY.

Maintenance Release

The aircraft and/or component(s) on N3641D was repaired and inspected in accordance with current FARs rules of the Federal Aviation Regulations, and was found Airworthy for return to service on work performed under this work order and signoff. Pertinent details of the repair are on file at this repair shop under Work Order No. 2219-10-2016. Dated 11/2/2016

DATE: 11/2/2016 SIGNED:  Work Order: 2219-10-2016  
Printed by EBis 3 (datcomedia.com)

Jamie Hiltbrandt A&P 3039160

YEAR	RECORDING	TODAY'S	TOTAL	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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8/14/17  
HOBBS 1535.5  
TOTAL  
12 HRS S.M.O.H.

DISASSEMBLE AND INSPECT C.M.I. ENGINE MODEL O470M S.N. 51038-5-M FOR METAL CONTAMINATION (ALUMINUM) / FOUND # 6 CYLINDER (CHROME BORE) / J & J AIR PARTS INC. W.O. 64799 OVERHEATED CAUSING SEVERE CYLINDER AND PISTON DAMAGED. CRANKSHAFT SENT TO PENN YAN AERO FOR INSPECTION I.A.W C.M.I. MANDATORY SERVICE BULLETIN 96-10B W.O. 45837-17, OIL COOLER OVERHAUL BY PACIFIC OIL COOLER SERVICE W.O. 119394, CAMSHAFT AND LIFTERS RECONDITIONED BY AIRCRAFT SPECIALTIES SVS. INC. W.O. 242249. CYLINDER POSITIONS 2, 4, 6 REPLACED WITH PINE MOUNTAIN AVIATION L.L.C. OVERHAUL ASSYS. W.O. 1802, CYLINDERS 1, 3, 5 INSPECTED AND REINSTALLED ( 12 HRS SINCE OVERHAUL ). AFTER COMPLETING THE INSPECTION AND REPAIRS THE ENGINE WAS REASSEMBLED WITH REFERENCE TO C.M.I. O470 OVERHAUL MANUAL P.N. X30586A, PARTS CATALOG FORM # X30587A. STANDARD PRACTICE MANUAL PUBLICATION # M-0 ALONG WITH APPLICABLE SERVICE BULLETINS USING PARTS SHOWN BELOW.

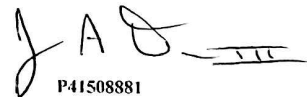
**PARTS:**

12 654487 NUT, 12 655960 BOLT, 1 SA646546A1 GASKET SET, 1 SA537401A3 M10 BRG. SET, 1 641250 SEAL, 12 630826M010 BRG., 1 649369 VERNATHERM VALVE ( 173 DEGREES F.), 2 633334M010 BRG., 6 656990 BOLT, 4 654589 BOLT

TEST RUN AND FLIGHT TEST IN ACCORDANCE WITH S.B. M89-7R1 ( THIS BULLETIN HAS BEEN INCORPORATED IN CONTINENTAL PUBLICATION M-O STANDARD PRACTICE MANUAL)

I CERTIFY THAT THE ABOVE REPAIR WAS PERFORMED AND INSPECTED IN CONFORMANCE WITH F.A.A. REGULATIONS AND IS APPROVED FOR THE RETURN TO SERVICE

DETAILS ON FILE AT PINE MOUNTAIN AVIATION L.L.C. W.O. 2398  
TEL. 203-730-0771

  
P41508881





YEAR 20 DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE
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YEAR  
20  
DATE

LANSING FLIGHT SUPPORT  
 72 SICKER RD  
 LATHAM, NY 12110  
 (518) 220-4444

N3641D  
 #2 ENG S/N #51038-5-M

17 AUG 2023 2504.9 ACTT (101.2 SMOH / TT = UNK) Completed Annual Inspection IAW Cessna / Continental Teledyne Maintenance Manuals. Oil change was completed and was re-serviced with 12 QTS Aeroshell 100W. Oil filter was removed and inspected and no debris was found. New filter was installed (P/N #AA 48108-2) and showed no leakage during run-up. Compression Test was completed (Hot); with the final readings #1 = 72/80 #2 = 64/80 #3 = 70/80 #4 = 74/80 #5 = 75/80 #6 = 74/80. Records check revealed 3 new ADs since last Annual Inspection. AD 2023-02-12 (Superior Intake Valves Installed) which was N/A by No Applicable Parts Installed. AD 2023-04-08 (Crankshaft Assembly Inspection), which was superseded by AD 2023-05-16, both of which were N/A by Engine Model Number. All Ground Runs and Leak Checks / Operational Checks were completed satisfactory. I certify that this ENGINE has been Inspected IAW an ANNUAL Inspection and found to be in an Airworthy Condition.

*Sean Healey*  
 Sean Healey  
 A&P #31563531A