

5557 Q



The Standard

ENGINE LOG

ASA-SE-1

Engine Record General Information

Manufacturer LYCOMING Model O-360-A1D

Serial L-7879-36A Type Certificate _____

This engine is currently installed in aircraft MOONEY M20-C N5557P

Minimum Octane Fuel 91/98 Oil Grade: Summer Shell 100W 50 WT. Winter 100W-50WT

Magneto Time _____ Point Setting _____ Firing Order _____

Spark Plug Gap _____

Manufacturer recommended overhaul at 2000 hours

DATE 19__	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.)
MARCH 21, 1997				ANNUAL INSPECTION. CHANGE OIL, INSPECT + CLEAN SCREEN - SOME CARBON, NO METAL. SERVICE W/ 7 QTS OF AEROSHELL W100. COMP ✓: #1-76/80, #2-74/80, #3-73/80, #4-75/80. REPLACE ALL SPARK PLUGS W/ CHAMPION REM 38E. CHECK MAGNETO TIMING - BOTH @ 24° ADJUST TO 25° BTDC. CLEAN CARB INLET SCREEN. PRESSURE CHECK EXHAUST. WASH DOWN ENGINE. DRESS PROP., LUBE HUB, PAINT FACE. REPLACE TOP FWD. BAFFLE SEAL. R+R GENERATOR, INSTALL RETAINER CUP IN FWD MOUNT, TORQUE + RE-MOUNT GEN. REPLACE ENGINE COMPARTMENT AERODUCT TUBING AS NEEDED. RE-MOUNT CARB AIR CONTROL CABLE W/ NEW CLAMPS + ADJUST CABLE. SECURE LINES + HOSES AS NEEDED. REPLACE INDUCTION AIR FILTER. C.W. AD 90-04-06R1 BY REPLACEMENT OF THE PROPELLER GOVERNOR

(CONTINUED NEXT PAGE)

DATE 19__	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.)
(CONT.)				
				EXTERNAL OIL LINE. AN 75166 USING ALL STEEL FITTINGS & CLAMPS AS REQUIRED BY AD.
				AD 95-26-02 N/A BY AIRCRAFT REGISTRATION NUMBER.
				AD 96-09-10C DUE @ 2000 HRS OR NEXT O.H.
				AD 97-01-03 N/A BY SN AND DATE OF O.H.
				C.W. AD 77-12-06 BY C.W. DB 118A TACH CHECK. DUE AGAIN NEXT ANNUAL
				AD'S C.W. + UPDATED THRU REVISION 97-05F. ALL NEW LISTS CREATED. SEE LISTS FOR STATUS OF CURRENT + RECURRING
				TACH READING: 2890.0

DATE 19__	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.)
				I CERTIFY THAT THIS ENGINE/PROPELLER... HAS
				BEEN INSPECTED IN ACCORDANCE WITH AN.....
				ANNUAL..... INSPECTION AND
				WAS DETERMINED IN AIRWORTHY CONDITION
				DATED.....3-21-97..... TOTAL 2890.0 HRS.
				SIGNATURE.....
				INSPECTION AUTHORIZATION No.....

TACH READING + T.T. A.F. : 2890.0

T.T. ENGINE : 2890.0

S.M.O.H. : 1789.0 (12/4/70)

PROP TT : 2890.0

PROP S.M.O.H. : 573.8 (8/12/78)

END

MAY 1, 1998 ANNUAL INSPECTION. DRAIN OIL. INSPECT & CLEAN
SCREEN - OK. SERVICE ENGINE W/ 7 QTS OF AEROSHELL W100.
COMA ✓: #1-74/80, #2-71/80, #3-72/80, #4-75/80. CLEAN, GAP + ROTATE SPARK
PLUGS. CHECK MAGNETO TIMING - OK. PRESSURE CHECK EXHAUST SYSTEM.
WASH DOWN ENGINE. REPLACE AIR FILTER. INSPECT PROPELLER
(CONT. NEXT PAGE)

DATE 19____ (CONT.)	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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				AND LODR HUB.
				C.W. AD 77-12-06 BY C.W. SB 118A, TACH CHECK. DUE AGAIN NEXT ANNUAL
				AD 97-15-11 N/A BY SN + DATE OF O.H.
				AD 98-02-08 N/A NOT FIXED PITCH PROPELLER.
				AD 98-01-06 N/A HAS ONE PIECE VENTURI, NO ROUGH OPERATION.
				AD'S C.W. + LISTS UPDATED THRU REVISION 98-08F.

T.T. AF + TACH READING:	2934.7
TT ENGINE	: 2934.7
SMDH (12/4/70)	: 1833.7
PROPELLER TT	: 2934.7
SMDH (8/12/78)	: 618.5

I CERTIFY THAT THIS ENGINE/PROPELLER HAS
 BEEN INSPECTED IN ACCORDANCE WITH.....
AN ANNUAL.....INSPECTION AND
 WAS DETERMINED IN AIRWORTHY CONDITION
 DATED 5-1-98 / TACH: 2934.7.....HRS.
 SIGNATURE.....
 INSPECTION AUTHORIZATION NO.....

DATE 19__	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.)
JUNE 1, 1999				ANNUAL INSPECTION: DRAIN OIL, INSPECT + CLEAN SCREEN - OK. SVC. W/ 7 QTS. OF AEROSHELL W-100. COMA. ✓: #1 - 77/80, #2 - 74/80, #3 - 71/80, #4 - 74/80. CLEAN, GAP + ROTATE SPARK PLUGS. CHECK MAGNETO TIMING + OK. PRESSURE CHECK EXHAUST SYS. AFTER RE-INSTALLATION. DRAIN CARB. BOWL. WASH DOWN ENGINE + LUBE CONTROLS. AIR FILTER - OK. LUBE + INSPECT PROPELLER. BLADES - OK. CWA077-12-06 R2 BY CW. SB.118A, TACH CHECK - OK. DUE AGAIN NEXT ANNUAL AD98-17-11 C CRANKSHAFT. N/A NOT REPAIRED BY NELSON BALANCING SERVICE. AD'S CW. + LISTS UPDATED THRU REV. 99-10F T.T. ENGINE + TACH READING: 2951.5 SMOH ENGINE: 1850.5 PROPELLER TT.: 2951.5 SMOH (8/12/99): 635.3
				I CERTIFY THAT THIS ENGINE / PROPELLER HAS BEEN INSPECTED IN ACCORDANCE WITH..... AN ANNUAL.....INSPECTION AND WAS DETERMINED IN AIRWORTHY CONDITION DATED 6-1-99 / TACH: 2951.5.....HRS. SIGNATURE..... INSPECTION A

DATE 19__	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.)
JULY 18, 2000.		ANNUAL INSPECTION.		DRAIN OIL, INSPECT + CLEAN SCREEN - OK. SERVICE OF AEROSHELL W100. COMP. ✓: #1-75/80, #2-69/80, #3-66/80, #4-72/80. CLEAN, GAP + ROTATE SPARK PLUGS. CHECK MAGNETO TIMING - OK. PRESSURE CHECK EXHAUST SYSTEM. CLEAN FUEL INLET SCREEN + DRAIN CARB. BOWL. WASH DOWN ENGINE + LOBE CONTROLS. CHANGE AIR FILTER. LUBE PROPELLER HUBS, INSPECT BLADES + PAINT FACE.
CW AD 77-12-06 R2.		(SB118A) TACH CHECK - OK.		DUE AGAIN NEXT ANNUAL.
AD'S CW.		+ LISTS UPDATED THRU REVISION 2000-14F.		
TACH READING + TTAF:	2975.8			
ENGINE SMOH:	1874.8			
T.T. PROPELLER:	2975.8			
SPOH:	659.6	DOH:	8/12/78	

I CERTIFY THAT THIS.....
 BEEN INSPECTED IN ACCORDANCE WITH.....
AN.....INSPECTION AND
 WAS DETERMINED IN AIRWORTHY CONDITION
 DATED.....
 SIGNATURE.....
 CERT NO.....

or Repair

W/700

PLUGS.

SCREEN

2001-07-03

2001-07-03

2001-07-03

2001-07-03

2001-07-03

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AND

TION

HRS.

2001-07-03

2001-07-03

2001-07-03

DATE 19__	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.)
JULY 24, 2001				ANNUAL INSPECTION. DRAIN OIL, INSPECT + CLEAN SCREEN - OK. SERVICE W/700TS. OF ACROSHELL W/100. COMP. ✓: 1-75/80, 2-74/80, 3-73/80, 4-74/80. CLEAN, GAP + ROTATE SPARK PLUGS. CHECK MAGNETO TIMING. PRESS. CHECK EXHAUST SYSTEM. CLEAN FUEL INLET. DRAIN CARB. BOWL. WASH DOWN ENGINE + LUBE CONTROLS. AIR FILTER - OK. LUBE + TIGHTEN #1 + #3 OIL RETURN LINE 45° FITTINGS 1 TURN.
				(SD118A) TACH CHECK - NO ERROR. DUE AGAIN NEXT ANNUAL.
				AD 2001-07-03C PROP. FAILURE. N/A BY DATE OF OH.
				AD 2001-07-03C LISTED THRU REVISION 2001-15F.
				I CERTIFY THAT THIS ENGINE/PROPELLER HAS BEEN INSPECTED IN ACCORDANCE WITH....
				AN ANNUAL..... INSPECTION AND
				WAS DETERMINED IN AIRWORTHY CONDITION
				DATED 7-24-01 / TACH: 2992.0..... HRS.
				SIGNATURE.....
				CERT NO. A.....

SPON: 575.8 / DOH: 8/12/78

DATE 19__	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.)
AUGUST 16, 2002				ANNUAL INSPECTION. DRAIN OIL, INSPECT + CLEAN SCREEN, - ON
				SERVICE W/ 7 QTS. OF AEROSHELL W 100. COMP ✓: #1-73/80, #2-76/80, #3-76/80, #4-72/80
				CLEAN, GAP + ROTATE SPARK PLUGS. CHECK MAGNETO TIMING. PRESSURE CHECK
				EXHAUST SYSTEM. CHECK FUEL INLET SCREEN + DRAIN CARB. BOWL. WASH DOWN
				ENGINE + LUBE CONTROLS. LUBE PROPELLER HUB. DRESS DOWN
				BLADES + PAINT FACE. CHANGE AIR FILTER. ASSEMBLE
				OIL COOLER HOSES. HO BO STAG + 116. 350WMA 100 250-5040551 116
				CW, SB118A TACH CHECK - NO ERROR. DUE AG
				AD 2001-23-08 HUB CRACKS. N/A. NOT INSTA
				AD 2002-09-08 BLADE CRACKS. PCW. BY CW. AD 77-12-06
				AD'S CW. + LISTS UPDATED THRU REVISION 2002-1655

Repair

-OK.

72/80.

2.0K

2.0K

2.0K

2.0K

2.0K

2.0K

2.0K

2.0K

2.0K

2.0K

2.0K

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.)
19 (CONT.)				
8/16/02		TACH READING	: 3006.3	I CERTIFY THAT THIS ENGINE/PROPELLER HAS BEEN INSPECTED IN ACCORDANCE WITH.... AN ANNUAL INSPECTION AND WAS DETERMINED IN AIRWORTHY CONDITION DATED 8-16-02 / TACH: 3006.3 HRS. SIGNATURE. [REDACTED] CERT NO.... [REDACTED]
		TT ENGINE	: 3006.3	
		SMOIT	: 1905.3	
		SPOH: 690.1 DOH: 8/12/78		
		TT-PROPELLER	: 3006.3	
SEPT. 2, 2004		ANNUAL INSPECTION + SERVICE.		DRAIN OIL, INSPECT + CLEAN SCREEN.
CARBON, NO METAL - OK		SERVICE w/ 7QTS. OF AEROSHELL W100.		CLEAN, GAP +
ROTATE SPARK PLUGS		COMP. TEST: #1-72/80, #2-74/80, #3-68/80, #4-68/80.		CHECK
MAGNETO TESTING		CLEAN FUEL INLET SCREEN + DRAIN CARB. BOWL.		PRESSURE
CHECK INSPECT EXHAUST SYSTEM.		WASH DOWN ENGINE + LUBE CONTROLS.		
INSPECT PROPELLER, SPINNER + BACKING PLATE.		LUBE HUB. DRESS MINOR		

(CONT. NEXT PAGE)

DATE 19__	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.)
9/1/04				
(CONT.)	3070.0	NICKS IN BLADES + PAINT FACE. CHANGE AIR FILTER ASSY. +		
		AIR FILTER - SEE AIRFRAME LOG FOR DETAILS. RUN UP + OPS. CHECK. CW. SB		
		118A, TACH CHECK - NO ERROR.		
		AD 2004-15-14C (CRAWSHAFT BOLT. NO RECORDED PROP. STRIKE AS DEFINED IN		
		THIS AD. DUE FOR REPLACEMENT AT NEXT OH. OR TEARDOWN		
		AD'S CW. + UPDATED THRU REV. 2004-18F.		
		TACH READING: 3070.0		
		S.M.O.H. : 1969.0		
		T.T. ENGINE : 3070.0		
		T.T. PROPELLER : 3070.0		
		S.P.O.H: 753.8 D.O.H: 8/12/78		
		T.T.A.F (N5557Q): 3070.0		

I CERTIFY THAT THIS.....HAS
BEEN INSPECTED IN ACCORDANCE WITH....
AN.....INSPECTION AND
WAS DETERMINED IN AIRWORTHY CONDITION
DATED 9-1-04 / 3070.0 HRS.
SIGNATURE.....
CERT NO.....

DATE 19__	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.)
MAY 23, 2006.				ANNUAL 100 HOUR INSPECTION + SERVICE. DRAIN OIL, INSPECT + CLEAN SCREEN: OK. SERVICE W/ 7 QTS. OF AEROSHELL W100. COMP. ✓: #1- ⁷⁸ / ₈₀ , #2- ⁷⁶ / ₈₀ , #3- ⁷⁹ / ₈₀ , #4- ⁶⁹ / ₈₀ . CLEAN, GAP + ROTATE SPARK PLUGS. CLEAN INLET FUEL SCREEN + DRAIN BOWL. PRESSURE CHECK + INSPECT EXHAUST SYSTEM. CHECK MAGNETO TIMING. WASH DOWN ENGINE + W/BE CONTROLS. INSPECT PROPELLER, SPINNER + BACKING PLATE. LUBR HD. DRESS UP + MINOR NICKS + PAINT FACE. CHANGE AIR FILTER. RUN UP + OPS. CHECK. CW. \$6.118A BY DIGITAL TACH CHECK: NO ERROR. DUE AGAIN NEXT ANNUAL. AD2005-19-11 N/A. CRANKSHAFT INSTALLED PRIOR TO 3/1/99. AD2005-26-10 N/A. NOT EQUIPPED W/ ECI CYLINDERS. AD2006-06-16 N/A. CRANKSHAFT INSTALLED PRIOR TO 3/1/99. AD's CW. + OPERATED THAN REVISION 2006-10F. [REDACTED]

(CONT. NEXT PAGE)

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5/23/06 (CONT.) TACH. READING: 3079.2

TT- ENGINE: 3079.2

S.MOH: 1978.2

TT. PROPELLER: 3079.2

SPOH: 763.0 DOH: 8/12/78

TTAF (N5557): 3079.2

I CERTIFY THAT THIS ENGINE/PROPELLER
BEEN INSPECTED IN ACCORDANCE WITH
AN ANNUAL/100 HOUR INSPECTION AND
WAS DETERMINED IN AIRWORTHY CONDITION
DATED 5-23-06 / 3079.2
SIGNATURE: [REDACTED]
CERT NO. [REDACTED]

N5557Q Date 8-20-10 Tach.3098.4 Hr
O-360-A1D6 S/N L-7839-36A Total 3098.4 Hr
Tsmoh 1997.4

Insp. eng. mount & lord mounts. Insp. and lube all
eng. controls. Insp. heat exchange, insp./ gap all
spark plugs. Insp.: exh.syst., ign.syst., carb.syst. and
starting syst. Drain carb. Clean. Wash eng., grnd. run
- no crks/ lks found, RPM & mag. check within specs.

Insp.oil screen for metal - none found, re-safetied

. Replaced: 8 Qts. AEROSHELL 100W, air filter

#1 78/80 #2 76/80 #3 74/80 #4 78/80

1)removed eng. Re-install with all new lord mounts
P/N J-7402-1 and bolts P/N AN7-36,nuts AN365-720,
washers AN960-716 and torque

2) removed oil sump, and accessorie housing.

following parts replaced with new: oil pump housing
Lyc. P/N 78531 & oil pump impeller gears Lyc. P/N
KIT 05K19423-S, access.housing gasket P/N 61183
,tach. drive seal P/N LW-14260, access drive gasket
P/N 68315, gov. gasket P/N 72053, vac pump gasket
P/N 8313, fuel pump gasket P/N 60096, oil screen
gasket P/N STD-1045, oil suction screen gasket P/N
60820, oil sump gasket P/N LW-13353,

3)removed all int. and re-install with all new gasket
P/N 71973, hose P/N 69603

4) replaced all rocker box cover gasket P/N 75906

5) replaced oil dip stick gasket P/N 72059

6)replaced crankshaft seal P/N LW-13792 cleaned
with acetone & sealed with pliobond

7)replaced all exh. nuts P/N STD-1410

8)replaced gen belt P/N 37B19774-325

and Alterations

tficate Number of Technician or Repair

N5557Q continuation Date 8-20-10
 9) removed carb. P/N 10-4164-1, S/N K-3-2337 and re-install with new gasket P/N 66224
 10) disassemble, clean in carb cleaner solution following parts replaced: 16A31, 16A16, 78-21, CF44-223, CF16A56, 55A139, CF16-A39, 78-A111, 15A23, 16A48, CF44-220, 16A42, 16A30, CF82-11, CF233-614. bench check float level. Repair on carb. per Precision Airmotive Corp. Service Manual FSM-OH2
 11) replaced both magnetos with rebuilt units by TCM install with new gasket P/N 62224.
 see WO. no. 0000017663 dated 8-29-09 for LHS. mag. P/N S4LSC-200 S/N E09HA145R model BL600614-1
 see WO.no. P70057 dated 8-11-08 for RHS. mag. P/N S4LSC-204 S/N E08GA090R model BL600644-1
 12) removed & re-install gen. replaced lockplate P/N 73383 on gen. mount
 "NOTE all eng. work done per Lyc.Direct Drive OH. manual P/N 60294-7
 12) grnd run eng. no-lks found, checked RPM, mag. drop, idle speed, mixture check, all within spec's. Various grnd runs and high speed taxi = 1hr on grnd. AD.06-10-21 N/A, AD.06-12-07 N/A, AD.06-20-09 N/A AD.07-04-12R1 N/A, AD.09-26-12 N/A
 39-9586. AD.96-09-10 C/W PAR.(c)(1) and C/W SI.1341. no further action required (oil pump)
 39-13644. AD.04-10-14 PAR.(e) due @ prop. strike

N5557Q continuation date 8-20-10

I certify that this ENG. has been insp. IAW an annual insp. per FAR.43 APPX. D and was found to be in airworthy condition.

Angel I Felix

DATE

19

N# 5557Q Date 6/28/2013 Tach/ Hobbs 322964 SMOH 322964 ETT 212864

Completed 100 hour inspection for annual this date. Cleaned, gaped and tested plugs. Changed oil and Cleaned Screen. Serviced with 2 qt. of AS W 100. Checked compressions 1. 26/80 2. 26/80 3. 24/80 4. 25/80 5. 21/80 6. 21/80. Performed the following work.

Tighten
Rocker Cover gasket screws, tighten oil Return
Lines. Replaced Crankcase Seal LW 11997.
Replaced Starter Vibrator PN 10-176487-121.

CW the following AD's.

AD's checked thru. 2013-12

None Due @ This Time.

I certify that this engine has been inspected in accordance with a 100 hour inspection and was determined to be in an airworthy condition.

John Hooker

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3/20/2018 T-3561.13 ETT-3561.13TSMOH-2460.13

100 hr/Annual Inspection

Compression test: 72, 74, 72, 76/80

Removed all sparkplugs, clean inspect gap and reinstall all sparkplugs.

Changed oil and checked screen. Serviced with 6 quarts of AS100w oil.

Checked both mags timing to 25 degrees. Inspected intake air filter. Check

all belts, hoses, and engine mount for condition and wear. Inspected intake

and exhaust systems. Installed serviceable prop, HCC-2YK-1BF, SN-

CH4409. Ran engine to full power and checked all systems. All checks

were normal. All work performed IAW FAR43, Appendix D and

AC43.131B/2A and applicable maintenance manual. This engine is

returned to service. Charles Schandelmeier, [REDACTED]

I CERTIFY THAT THIS Engine HAS
BEEN INSPECTED IN ACCORDANCE WITH A
100 hr/Annual INSPECTION AND WAS FOUND
TO BE IN AIRWORTHY CONDITION.

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FOUND**

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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.)
8/19				
5-02-88	8595.88		2494.88	STOH. 16.5
				Comp. Check OK. Cyl. # ① 80/80 ② 78/80 ③ 80/80 ④ 80/80
				Check mag Timing, cleaned spark plugs, Visual Inspection
				Eng. Installation, condition and security I/S/O Form 43
				Appendix 'D' 100 Hrs Inspection, ground run engine
				no discrepancy noted.
AD-04-10-14				CC Crank shaft & gear + retaining bolts n/a at this point.
				I certify that this <u>Engine</u> has been
				inspected in accordance with a <u>100 Hrs</u>
				inspection and was determined to be in
				airworthy condition.
				Alberto Marin AP [REDACTED]
				[REDACTED]