

Log # 2

The Standard



ENGINE LOG

ASA-SE-1

ENGINE RECORD — GENERAL INFORMATION

MANUFACTURER Lycoming MODEL IO-360-A1B6

SERIAL L-7952-57A TYPE CERTIFICATE _____

THIS ENGINE IS CURRENTLY INSTALLED IN AIRCRAFT Cessna 177RG N56U SN 177R60164

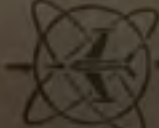
MINIMUM OCTANE FUEL _____ OIL GRADE SUMMER _____ WINTER _____

MAGNETO TIME _____ POINT SETTING _____ FIRING ORDER _____

SPARK PLUG GAP _____

MFG. RECOMMENDED OVERHAUL AT _____ HOURS.

The Standard

 **ENGINE LOG**

TRIAD AVIATION, INC.
CERTIFIED REPAIR STATION 711-23

Airframe & Engine

MAKE Lycoming MODEL IO-360-A1B4
 S/N L-7952-51A DATE 5/5/89
 TSMOH 000.0 TOTAL TIME 2139.0

Triad Aviation, Inc., certifies that this engine has been disassembled, inspected, overhauled and tested in accordance with recommended procedures and is approved for return to service. All clearances and tolerances are within new limits. Procedures and limits used are as contained in the engine manufacturers overhaul manual. Pertinent details of this work are on file at this repair station under work order number 5629.

Signed: James H. Pembel for: **TRIAD AVIATION, INC.**
 Route 1, Box 8
 Burlington, NC 27215
 919-227-1467

DATE 1989	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
5/5	Tach 2139.0	SMOH 0.0	0.0	<p>Engine removed from aircraft, MOH'd, re-inst'd in aircraft. Cleaned, inspected exh. system. Weld repaired L nuttler shroud. Replaced gear warning horn roller on fuel servos and adj'd. Serviced engine with Aerashell 100 mineral oil and ground run. Adj'd idle RPM & mixture and oil pressure. No leaks noted & ops normal on ground run.</p> <p>Aircraft test flown. Details on file W.O.'s 5629 and 5623 1078-09-07 due at Tach 2348.</p> <p>I certify that this ^{Engine} aircraft has been inspected in accordance with an <u>Annual</u> inspection and was determined to be in airworthy condition. Date <u>5/5/89</u> Total Time in Service <u>2139.0</u> Triad Aviation, Inc. <u>James W. [Signature]</u> FAA Repair Station <u>711-23</u></p>

DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
5-27-90	TACH TIME	2254	7045	<p> DRAINED OIL, CLEANED SCREEN, CHANGED FILTER AND SERVICED WITH 8 QTS 50W ARMOShell, C/W AD 90-04-06 BY INSPECTION, REPLACED BOTH OIL COOLER HOSES, INSTALLED BRACKET AIR FILTER, REPLACED FUEL PUMP DRAIN LINE, CHECKED MAG TIMING, CLEANED AND REGAPPED SPARK PLUGS, CHECKED INTAKE AND EXHAUST SYSTEMS CLEANED ENGINE, RAN AND LEAK CHECKED OK, COMPRESSION CHECKED AS FOLLOWS # ① $\frac{58}{80}$ # ② $\frac{74}{80}$ # ③ $\frac{78}{80}$ # ④ $\frac{74}{80}$ </p>
				<p> I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION, AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. ^{5 MOH} TOTAL TIME <u>115,704.5</u> </p>
				<p> Kim A. Barnett 1A231661372 </p>

DATE 19 92 RECORDING TACH TIME EW TODAYS FLIGHT TOTAL TIME IN SERVICE SMOH DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)

8-1-92	2439.7 2498.7		297.1	<p>CHANGED OIL & OIL FILTER FILLED WITH 9 QTS AEROSHELL 50 OIL</p> <p>CLEANED FUEL SYS SCREEN & INJECTION NOZZLES. CYLINDER COMPRESSIONS</p> <p>CYL #1- $\frac{70}{90}$ #2- $\frac{76}{90}$ #3- $\frac{77}{90}$ #4 $\frac{75}{90}$ I CERTIFY THAT THIS ENGINE WAS INSPECTED IAW 100HR ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION AT THIS TIME.</p> <p>A. R. TUSKEGEE LTD - Leadville, CO</p>
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DATE 19 <u>93</u>	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
Sept <u>4</u> , 1993			Tach 2510.57	 <p>(1) checked A/c lighting</p> <p>(2) cleaned, lubed, insp All cables, pulleys, push pull rods ect.</p> <p>(3) Function checked EWT, Replacement Due June 94</p> <p>(4) serviced battery</p> <p>(5) serviced brakes & Hyd lower part w/5604</p> <p>(6) replaced induction filter - Bracket PB-5705</p> <p>(7) cleaned Tail Nav - socket for Piston Bulb</p> <p>(8) cleaned 4 - Pulley & Reinstalled</p> <p>(9) removed carriage from Tail - Link chrome Two to Reinstall</p>

DATE

19__

RECORDING
TACH
TIMETODAYS
FLIGHTTOTAL
TIME IN
SERVICE

DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS
 ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF
 MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)

(10) Replaced Rivet in cut stab

(11) Replaced Fuse Holder on EGT Gauge

(12) Removed ADF Antenna wire

(13) Removed Nose Gear Doors - installed

New Kings & Pins to Rod ends -

PN-2043022-1, 2043021-7, MS20392-2011

AN-42B-10/4-13

(14) Performed Gear Retraction & Extension Test

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			(15)	4W AD-72-03-03 R3 Flap Jack screw by visual insp. & lube
			(16)	4W AD-87-20-03 R2 Seat Tracks & rollers by measurement & visual insp.
			(17)	4W AD-93-02-05 Fuel Pressure line by visual insp.
			(18)	AD-78-09-07 signals Over at Tach 2891.17
			(19)	4W AD-90-04-06 Prop Gov - line by visual insp.
			(20)	4W AD-76-24-04 Flex Fluid line by pressure visual insp.
			(21)	4W AD-76-07-12 Bands may service by Peg run up

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			→	AFTER THE FOLLOWING ITEMS...
				(1) COMPRESSION CR. #1 79/80 #2 78/80 #3 70/80 #4 79/80
				(2) CHANGED OIL AND FILTER W/100 AEROSHELL + CH48110 CHAMPION OIL FILTER.
				(3) REPLACED BENDIX MAGS W/NEW SLICK MAGS L/H MODEL 4373 4373 SN 94070055 + R/H MODEL 4370 SN 94660283 (SEE TAGS) ALSO INSTALLED NEW SLICK HARNESS TIMED MAGS TO ENGINE.
				(4) REMOVED BOTH L/H + R/H MUFFLERS FOR REPAIR (SEE TAGS) REINSTALLED. REPAIR

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→				(5) REPLACED CRANK SHAFT SEAL.
				(6) REPLACED PROP GOV. LINE w/new.
				(7) REPLACED ROCKER COVER GASKETS ON
				# 1 + #3 Clys.
				(8) C/W AD 93-02-05 By PARA. A. INSP
				(9) WASHED DOWN ENGINE + GRND CKCS
				NO LEAKS NOTED.

I CERTIFY THIS ~~MOTOR~~ ENGINE HAS BEEN
 INSPECTED IN ACCORDANCE WITH A ~~TEST~~ ANNUAL
 INSPECTION AND FOUND AIRWORTHY.
 APPROVED FOR RETURN TO SERVICE.

DATE 9/24/97 TACH TIME 2560.5

KELLY A. WARD, A & P 2449677451A.

SIGNATURE Kelly Ward

DATE 19 95	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
	10-13-95 2589.07		2589.07	
	SMDH = 450.07			(1) Performed 100HR Insp. I/A/W by com. 20-360 Service manual.
				(2) Comp - cyl #1 - 80/80 #3 - 79/80 #2 - 79/80 #4 - 78/80
				(3) Removed plugs, cleaned, gaped, tested, reinstalled
				(4) High Tension leads tested (Harness)
				(5) checked & set mag timing
				(6) changed oil - 80's Shell W100
				(7) changed oil filter - CH48110
				(8) cleaned 93-02-05 Injector lines by visual insp & per PM A.
				(9) washed down engine (continue next page →)

DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
1995				
10-11	2589.07		(10)	Ground Run - no leaks noted
SMOH=	450.07			
T Eng	2589.07		(11)	

I CERTIFY THIS AIRCRAFT ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 hr ANNUAL INSPECTION AND FOUND AIRWORTHY. APPROVED FOR RETURN TO SERVICE.

DATE 10-13-95 TACH. TIME 2589.07

KELLY A. WARD, A & P 2449677451A

SIGNATURE Kelly A Ward

DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
1995				
#1395	2589.01			
1-10-97	2613.4	HGN		CHANGED OIL & FILTER. SERVICED ENGINE WITH AEROSHELL 100W. INSTALLED NEW
	SMO H	474.4		STANTON BENDIX DRIVE PIN EBB131, REPLACE &
				BRACKET AIR FILTER ELEMENT. C/U AD93-02-05
				by-impal injector lines per PARA A. CHECKED
				TIMING & COMPRESSION #1 79 #2 79 #3 78 #4 73
				CLEANED FUEL SCREENS & CLEANED & GRAPPED
				PLUGS. WASHED ENGINE & RUNUP. I CERTIFY
				THAT THIS ENGINE WAS INSPECTED IAW A
				100 HR IAW AND WAS DETERMINED TO BE
				IN A AIRWORTHY CONDITION.
				Edison [Signature] AEP 217719

DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
19 <u>98</u>	2624.28			CHANGED OIL & FILTER, CHECKED TIMING,
	485.28	TSMOH		BREMEN HIGH TENSION CABLE OK, RETORQUED
				ALL ROCKER BOX COVERS CLEANED, OILED &
				ROTATED SPARK PLUGS CHECKED COMPRESSOR
				& CHECKED ALL ADS TO DATE
				PUMP - #1-74, #2-76, #3-76, #4-78
				WASHED ENG LUBED CONTROLS RUN FUA OPS &
				LEAK CK FOUND OK ALL WORK PERFORMED
				ON WO # 010303 ES AVIATION SERVICE
				GASTONIA.

CERTIFY THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HR INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.

APR 4 1998
 5046951

DATE 19 <u>98</u>	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
11/9/98	2631.52	TRCH	492.32	SMH Removed and replaced all spark plugs removed out inspected oil filter, installed new C48110 oil filter and soptid. Test run satisfactory on leakage at filter clean filter. Removed 64542080 AFR, RA
02/04/99				performed 100 hr inspection C/W all ADs printed & enclosed with records, repaired #2 cyl leaks. #1 cyl exhaust repaired yellow tag attached to log book change air filter, soptid push rod tubes - stop drilled cracks → buffing over

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2-04

checked eng operation, checked mag timing
 I certify this eng has been inspected IAW
 100 hr inspection per Cessna maint manual and
 was found to be airworthy at this time

Kay E-M PL
 250231547 AIP

DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE
<i>03-05-99</i>		<i>1000</i>	
<i>03-06-99</i>		<i>1000</i>	
<i>03-07-99</i>		<i>1000</i>	
<i>03-08-99</i>		<i>1000</i>	
<i>03-09-99</i>		<i>1000</i>	
<i>03-10-99</i>		<i>1000</i>	
<i>03-11-99</i>		<i>1000</i>	
<i>03-12-99</i>		<i>1000</i>	
<i>03-13-99</i>		<i>1000</i>	
<i>03-14-99</i>		<i>1000</i>	
<i>03-15-99</i>		<i>1000</i>	
<i>03-16-99</i>		<i>1000</i>	
<i>03-17-99</i>		<i>1000</i>	
<i>03-18-99</i>		<i>1000</i>	
<i>03-19-99</i>		<i>1000</i>	
<i>03-20-99</i>		<i>1000</i>	
<i>03-21-99</i>		<i>1000</i>	
<i>03-22-99</i>		<i>1000</i>	
<i>03-23-99</i>		<i>1000</i>	
<i>03-24-99</i>		<i>1000</i>	
<i>03-25-99</i>		<i>1000</i>	
<i>03-26-99</i>		<i>1000</i>	
<i>03-27-99</i>		<i>1000</i>	
<i>03-28-99</i>		<i>1000</i>	
<i>03-29-99</i>		<i>1000</i>	
<i>03-30-99</i>		<i>1000</i>	
<i>03-31-99</i>		<i>1000</i>	

DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS
 ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF
 PERSON OR SERVICE FACILITY (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)

Date = 03-05-99

TACH = 2658.66
 TSMO = 519.66

POWERPLANT

Completed an Annual Inspection this date IAW an approved inspection checklist. ADs CW thru Biweekly 03-99, see provided list. I certify that this P/P has been inspected IAW an annual inspection and was determined to be in an airworthy condition.

Marjorie V. Jake Marjorie V. Jake
 A/P 337605839 IA

DATE 2000 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
03/02	2779.4			<p>Removed centrig, drained oil, replaced oil filter with new one, serviced with 8 Qt new shell 100W, cleared + gaped plugs Comp check 1) 7/80 2) 72/80 3) 71/80 4) 73/80 repaired oil leaks on #1 cyl valve cover + push rod tube, checked mag points + timing all A.D.s CW through 00-04</p> <p>I certify that this eng has been inspected IAW A 100 hr inspection and is to be in Airworthy condition at this time</p> <p>Ray C. M. Ch. 350031547 AIP</p>

DATE 2000 19	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
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3/2 2779.4

I CERTIFY THIS Engine HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS FOUND TO BE IN AN AIRWORTHY CONDITION AT THIS TIME.

Scott M. Crawford
SCOTT M. CRAWFORD I.A. 214000143

DATE 2000 19	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
04/14	2795.0			<p>Tremble shoot LH mag removed mag & replaced points, capacitor, & dis block internally timed & timed to eng, ran eng for ops check & leak check</p> <p style="text-align: right;">Ray E M Ch 250231547 A+P</p>
10/18/00	0067		2851.9	<p>Replaced crank shaft seal, replaced all 4 pushrod tube seals for #3 cyl. Drained oil & changed filter serviced with 80W AeroShell 100W cleaned eng includes notes</p> <p style="text-align: right;">Ray E M Ch 250231547 IAP</p>

DATE 2001 19	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
04/05	102.2		2887.1	<p>drained oil changed filter removed top plugs & performed comp check checked air filter removed bottom plugs cleaned all plugs gaped & installed serviced eng with 8 qts new shell 100w lubed all cables inspected prop bulk head & spinner I certify this eng & prop have been inspected IAW a 100hr inspect and was found to be in airworthy condition at this time By MIC 250231547 ATP</p>

DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
MAY 25, 2002	TACH 344.5	TTSMOH 990.4		<p>Performer Routine Insp IAW Maint MAN. Changed oil + Filter Added 8qts 50wt Aero-Shell Det Oil. Compression #1 77/80 #2 68/80 #3 78/80 #4 78/80 Cleaned + Gapped spark plugs. Replaced #2 cyl Intake Gasket Installed New O/H Fuel Servo P/N 2524054-10 S/N 33710 WASHED Eng Down Ran Eng Set Idle + Idle Mixture. No Leaks Noted. 880-3 Servo Form in Folder C/w ADs THRU 2002 -09 T-Data See up DATER AD List in Folder</p>

Next Page →

DATE 19__ RECORDING TACH TIME TODAYS FLIGHT TOTAL TIME IN SERVICE DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)

→ CONT

Clearwater Aircraft Maintenance & Service, Inc.
 14421 Airport Parkway
 Clearwater, FL 33762

Each Time 344.5 Total Time SALON 990.4
 I certify that this ~~aircraft~~/engine has been inspected in accordance with annual inspection & was determined to be in an airworthy condition.
 Pertinent details are on file at this agency under Work Order No. 5962 Date: 5-25-02
 Signed Matthew M. [Signature] for
FA 266 233326

JJ AERONAUTICS, INC.

IONS
MBER OF
ENTRIES.)

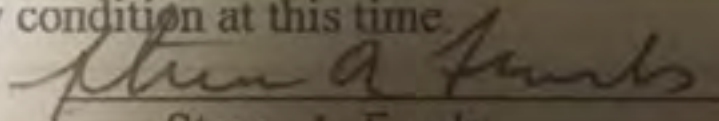
Engine Book Entry N177NC

05/03/03 ETT 3354.30 SMOH 1214.40 STO 0.0 TACH 568.50
IO-360 A1B6 S/N L-7952-51A

WO # P-376

Completed annual inspection this date. Drain and change oil, 8 qts mineral, filter CH48110. Cleaned & gapped all plugs. Cleaned fuel screens. Inspect & clean induction air filter. Compression as follows/80: #1 76 #2 77 #3 76 #4 78. after performed top Overhauled with OH cylinders, supply by Zephyr aircraft engines (see yellow tags on the back of the book for S/N's). Replaced fuelm servo P/N 2524054-11, S/N 84020015. Checked Mag to engine timing. Drained and clean gascolator. Adjust alternator belt. Replaced heater scat hose # 8. Performed routine maintenance. Checked ad's ok. Clean engine, performed runup, operational checks satisfactory, no leaks noted at this time.

I certify this engine has been inspected IAW an annual inspection & was determined to be in airworthy condition at this time.



Steve A. Franks

IA 2694554

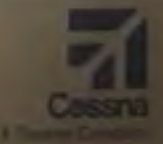
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5-20-04 / 177NL Cessna 177RG0164 652.6
 Date N# Make Serial # Tachometer

"SUPPLEMENTAL LOG ENTRY"

Cleaned and insp. fuel injectors reinstalled tested
 and look for leaks. Replaced bad spark plug in #1 cyl.
 on bottom.

A.M.S.-Ocala w/o# 04-5799



A & P Bern Bernitt
266297329

DATE 2004 19	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
7/1/04	655.5	Tach		Completed annual inspection this date & time Drained oil.
	3441.3	Total time		Serviced engine w/ 8 qts AeroShell 100. Removed & replaced
	1301.4	SMOH		oil filter - Champion CH48110. Cut open & inspected old
	87.0	STOH		oil filter element - no defects noted. Replaced all 8
				spark plugs - REM38E. Compression Test -
				#1 78/80, #2 78/80, #3 77/80, #4 78/80.
				Check engine timing. Clw AD 2002-26-01 by visual
				inspection of fuel injection lines. Next due at next annual
				or 100 hr. inspection. Run up, ops & leak checks satisfactory.
				I certify this Engine has been inspected IAW an
				Annual inspection & was determined to be in
				Airworthy condition. <i>[Signature]</i> AIP 2675051 IA.

DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
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28 September 2005

N177NC

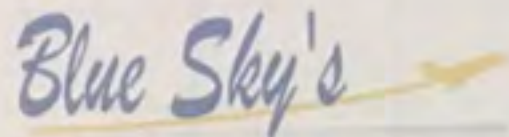
Total Time Engine = 3524.1. Tach = 0739.3 hours. TSMOH = 1340.0 hours, TSTOH = 125.6 hours. Inspected engine and propeller in accordance with inspection form and Cessna Service Manual. Drained oil & filter. Installed new CH48110 filter and 7 qts Aeroshell 100 (50 wt). Cleaned and gapped plugs; Checked Mag timing; Differential Compression Check as follows: #1 - 80/78; #2 - 80/76; #3 - 80/77; #4 - 80/75. Test run engine. Engine performed within specifications. All applicable AD notes as listed in back of Engine logbooks 1 & 2 and aircraft records binder complied with as indicated. I certify that this engine was inspected in accordance with an Annual Inspection and was determined to be in airworthy condition on this date.

R.F. Hughes
R.F. Hughes
A&P5653233191A

DATE 2006 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
8 JUN	790.1	DANGER		OIL, REPLACED CHAMPION FILTER CH 48110, ADDED 8 QTS
				ARCO SHELL 100 (5QT), REPLACED BRACKET AC FILTER PA BB1005
				RUN UP ENGINE, NO LEAKS NOTICED. OLD OIL FILTER CUT OPEN AND
				NO METAL FOUND <i>Lowi Smith</i> / CF 1392835 EM 1-07
				5 out tach time 812.6 hr, (H/3.35 MPH)
				Champion oil & filter Arco shell 100
				CH 48110-1 filter, Compression #1 $\frac{74}{80}$ $\frac{75}{80}$
				#3 $\frac{74}{80}$ #4 $\frac{72}{80}$, Clean gaps & dirt plugs. Replace
				air filter. Check timing. Run up &
				checked at Barry's in App 1496747

DATE 2006 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
8 JUN	790.1	DANGER		OIL, REPLACED CHAMPION FILTER CH 48110, ADDED 8 QTS
				ARCO SHELL 100 (5QRT), REPLACED BRACKET AIR FILTER PN 881005
				RAN UP ENGINE, NO LEAKS NOTICED. OLD OIL FILTER CUT OPEN AND
				NO METAL FOUND Low Quality / CF 1392835 EAY 1-07
				5000 Total Time 812.6 hr, (H/3.35 MPH)
				changed oil + filter, Arco shell 100
				CH 48110-1 filter, Compression #1 $3\frac{1}{8}$ $2\frac{7}{8}$
				#3 $3\frac{1}{8}$ $4\frac{1}{8}$, Clean gaps + dust plugs. Replace
				air filter, check timing, Run up +
				checked at Barry's in A99 1498747

DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
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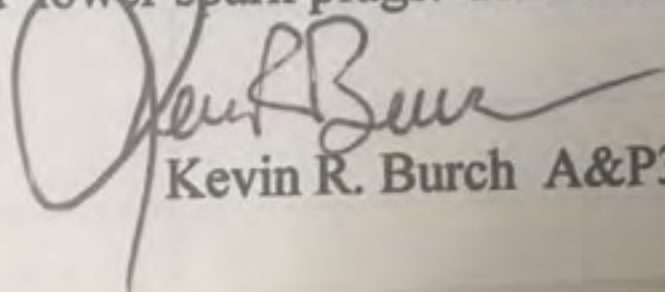
Blue Sky's 

Aircraft Maintenance Services, LLC

N177NC
Cessna 177RG, SN.177RG0164

Date 04-12-2007, Tach 855

Compression test completed on all cylinders and average mid 70s/80. Replaced valve cover gaskets. Replaced Intake Manifold O-ring and gasket. Resecured wire bundle on top of nose wheel well. Changed Oil and re-serviced with 7 qrts of Aeroshell 100w and 6 oz of additive LW-16702. Cleaned, gaped, and tested lower spark plugs. Run and leak checks OK.



Kevin R. Burch A&P31452491A

DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
2009 1-23-09	870.3	SMOK 1471.0		Inspected Engine In Accordance With FAR 43 Appendix D: Compression Test #1-72/80 #2-75/80 #3-70/80 #4-73/80.
			Ellis Whigham A & P 424561728 TA <i>Ellis Whigham</i>	Change Oil and Filter Serviced with 7 QTS Aeroshell W100 SAE 50, 1-CH48110-1 OIL FILTER. OLD FILTER CUT OPEN NO METAL FOUND. Cleaned, Gapped Tested Spark Plugs, Rotated Top/Bottom on Spark Plugs. Checked mag Timing. Added 6 OZ LW-16702 Additive. Installed New Adel Champs and Hose on Fuel Injector Lines, Inspected PPR AD 08-14-07. Installed New Intake Gaskets #2 & #4 Cyls. Installed New Air Intake Filter Plus Baskets Ground Run - Operational Check Satisfactory. No Leaks Observed at this time. — END —

I certify that this ~~aircraft~~ engine has been inspected in accordance with ~~an annual~~ inspection and was determined to be in an airworthy condition.

DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
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20 Feb 2010

Task time 883.5 hr, (1484,35 moH)

Change oil + filter Avonhell 100W

CH48110-1 Filter Install 8 ea new

REM 38F spark plugs. Compression

#1 $\frac{74}{50}$ #2 $\frac{76}{50}$ #3 $\frac{70}{50}$ #4 $\frac{73}{50}$ Check mag timing

AWAD 08-14-07 Input fuel inj line

Bruce Dyer APT 1458747

DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
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OCTOBER 20, 2011 N177NC TACH: 940.4

CHANGED OIL AND FILTER. INSTALLED NEW CH48110-1 FILTER AND SERVICED ENGINE WITH 8 QTS AEROSHELL 15W50. INSPECTED OLD FILTER FOR METAL. NONE FOUND. GROUND RUN AND LEAK CHECK WAS SATISFACTORY.

THE AIRCRAFT AIRFRAME, AIRCRAFT ENGINE, PROPELLER, OR APPLIANCE IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FEDERAL AVIATION ADMINISTRATION AND IS APPROVED FOR RETURN TO SERVICE. PERTINENT DETAILS OF THE REPAIR ARE ON FILE AT THIS REPAIR STATION UNDER

W/O NO. 73713 DATE 10/20/2011

SIGNED [Signature]

WESTON W. BIGELOW FOR WIPAIRE, INC. CRS RJWR390K PHONE 651.451.1205

DATE

19__

RECORDING
TACH
TIMETODAYS
FLIGHTTOTAL
TIME IN
SERVICEDESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS
ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF
MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)

NOVEMBER 4, 2011 NI77NC TACH: 945.1

INSTALLED EZ411 ENGINE OIL SUMP HEATER. WEIGHT AND BALANCE CHANGE
NEGLIGIBLE.

THE AIRCRAFT AIRFRAME, AIRCRAFT ENGINE, PROPELLER, OR APPLIANCE
IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH
CURRENT REGULATIONS OF THE FEDERAL AVIATION ADMINISTRATION AND IS
APPROVED FOR RETURN TO SERVICE. PERTINENT DETAILS OF THE REPAIR ARE ON
FILE AT THIS REPAIR STATION UNDER

W/O NO. 73748

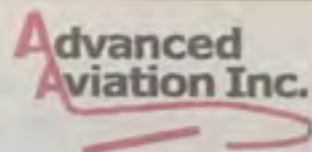
DATE 11/4/2011

SIGNED

WESTON W. BIGELOW FOR WIPAIRE, INC. CRS RJWR390K PHONE 651.451.1205

DATE

19__

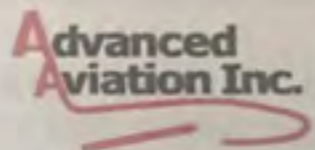
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TI
5DATE 4/09/2012 TACH 971.2 #N177NC
TTE 3756.0 TSMOH 1617.0

AGENCY

COMPLIED WITH ANNUAL INSPECTION. CHANGED OIL AND FILTER CH48110-1 AND ADDED 8QT'S AEROSHELL 15W-50 OIL. INSPECTED FILTER FOR METAL. SMALL AMOUNT NOTED. CONTINUE TO MONITOR. CHECKED MAG TIMING AND TESTED ALL LEADS. COMPRESSION TEST. #1 78/80 #2 72/80 #3 72/80 #4 78/80. CLEANED GAPPED TESTED AND ROTATED PLUGS. CLEANED AND INSPECTED FUEL BOWL AND SCREENS. REPLACED INDUCTIO AIR FILTER BA5705. CLEANED AND INSPECTED ALL FUEL INJECTORS. BLENDED OUT CHAFFED AREA'S ON FWD R/H BAFFLE FOR CLEARANCE. REPLACED #3 CYLINDER VALVE COVER GASKET. REPLACED #1 AND #3 CYLINDER OIL RETURN RUBBER HOSES. INSPECTED ALL INTAKE EXHAUST AND MUFFLER SYSTEMS. CHECKED ALL HOSES AND WIRES FOR DETERIORATION AND ROUTING. C/W AD2011-26-04 BY INSPECTION OF FUEL INJECTOR LINES AND CLAMPS. CHECKED GOOD. NEXT DUE TACH 1071.2. CHECKED ALL AD'S THRU THIS DATE. INSPECTED AND LUBED ALL ENGINE CONTROLS. WASHED DOWN ENGINE. RUN UP OPERATIONAL TEST CHECKED GOOD.

THE AIRCRAFT AND/OR COMPONENTS IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH ALL CURRENT FEDERAL AVIATION ADMINISTRATION'S REGULATIONS AND IS APPROVED FOR RETURN TO SERVICE. ALL PERTINENT INFORMATION IS ON FILE UNDER W.O.2251 DATED 4/09/2012
 SIGNED Howard Chouanard A&P 2657747 IA
 HOWARD CHOUANARD, ADVANCED AVIATION INC. PHONE 952-412-3395

DATE 9/24/2012 TACH 1021.3 #N177NC



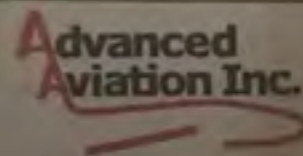
ERATIONS TO
ND THE APPROVING AGENCY.

CHANGED OIL AND FILTER CH48110-1 AND ADDED 8QT'S AEROSHELL 15W-50 OIL.
WASHED DOWN ENGINE AND LUBED CONTROLS. RUN UP LEAK AND OPERATIONAL
TEST CHECKED GOOD.

THE AIRCRAFT AND/OR COMPONENTS IDENTIFIED ABOVE WAS REPAIRED AND
INSPECTED IN ACCORDANCE WITH ALL CURRENT FEDERAL AVIATION
ADMINISTATIONS REGULATIONS AND IS APPROVED FOR RETURN TO SERVICE. ALL
PERTINENT INFORMATION IS ON FILE UNDER W.O.2308 DATED 9/24/2012

SIGNED Howard Chouanard A&P 2657747 IA
HOWARD CHOUANARD, ADVANCED AVIATION INC. PHONE 952-412-3395

DATE 01/25/2013 TACH1024.7 #N177NC

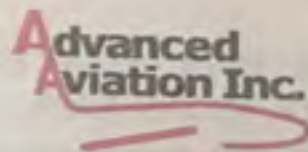


REMOVED R/H AND L/H MAGNETO. FILED PIONTS AND CLEANED INSIDE OF
MAGNETO'S. REINSTALLED MAGNETO'S ON ENGINE WITH NEW GASKETS. TIMED
TO ENGINE. CHARGED BATTERY. RUN UP OPERATIONAL TEST CHECKED GOOD.

THE AIRCRAFT AND/OR COMPONENTS IDENTIFIED ABOVE WAS REPAIRED AND
INSPECTED IN ACCORDANCE WITH ALL CURRENT FEDERAL AVIATION
ADMINISTATIONS REGULATIONS AND IS APPROVED FOR RETURN TO SERVICE. ALL
PERTINENT INFORMATION IS ON FILE UNDER W.O.2341 DATED 01/25/2013

SIGNED Howard Chouanard A&P 2657747 IA
HOWARD CHOUANARD, ADVANCED AVIATION INC. PHONE 952-412-3395

DATE 01/10/2013 TACH 1024.6 #N177NC



DNS TO
E APPROVING AGENCY.

REMOVED STARTER P/N MZ4222 S/N A159142 AND INSTALLED SKY-TEC STARTER P/N 149NL S/N FN-421288. INSTALLED PER INSTALLATION INSTRUCTIONS DRAWING #25001. FAA PMA APPROVED REPLACEMENT. OPERATIONAL TEST CHECKED GOOD. WIEGHT AND BALANCE UPDATED.

THE AIRCRAFT AND/OR COMPONENTS IDENTIFIED INSPECTED IN ACCORDANCE WITH ALL CURRENT ADMINISTATIONS REGULATIONS AND IS APPROVI PERTINENT INFORMATION IS ON FILE UNDER W.O. SIGNED Howard Chouanard HOWARD CHOUANARD, ADVANCED AVIATION INC

FAA - PMA

This tag certifies that Sky-Tec Model No. 149-NL Serial No. FN-421288 was manufactured new on 22 Oct 2012 by Sky-Tec under the authority of FAA PMA No. PQ0852SW Supplement No. 7 per CFR14 Part 21 in accordance with Sky-Tec's FAA-Approved Fabrication Inspection System (CFR14 Part 21 §21.303) and conforms to the relevant FAA-approved drawings. This part has been determined to be airworthy.

For installation eligiblility see www.skytecair.com/eligibility.htm
Starter Installed on N 177NC (Aircraft) by Howard Chouanard (Mechanic)

DATE

19__

DATE 4/11/2013 TACH 1033.7 #N177NC
TTE 3818.5 TSMOH 1679.5

Aviation Inc.

ANCE.

COMPLIED WITH ANNUAL INSPECTION. CHANGED OIL AND FILTER CH48110-1 AND ADDED 8QT'S AEROSHELL 15W-50 OIL. INSPECTED FILTER FOR METAL. NONE NOTED. COMPRESSION TEST #1 77/80 #2 77/80 #3 75/80 #4 76/80. CHECKED MAG TIMING AND TESTED ALL LEADS. CLEANED GAPPED TESTED AND ROTATED ALL PLUGS. CLEANED AND INSPECTED FUEL BOWL AND SCREENS. CLEANED AND INSPECTED INDUCTION AIR FILTER. REPAIRED BAFFLES ON #1 & #2 CYLINDERS. REPAIRED BAFFLE IN FRONT OF ALTERNATOR. REPLACED OIL FILLER TUBE GASKET WITH NEW. REMOVED R/H AND L/H MUFFLERS AND ALL RISERS AND CROSS OVER TUBES. HAD REPAIRED BY AEROSPACE WELDING. REINSTALLED WITH ALL NEW HARDWARE. REPLACED ALL INTAKE TUBE GASKETS AND O-RING SEALS WITH NEW. INSPECTED ALL INTAKE AND EXHUAUST SYSTEMS. INSECTED ALL MOUNTING AND ROUTING. INSPECTED AND LUBED ENGINE CONTROLS. C/W AD2011-26-04 BY INSPECTION OF FUEL INJECTOR LINES AND CLAMPS. CHECKED GOOD. NEXT DUE TACH 1133.7. AD2012-19-01 DATED 10/24/2012 CRANKSHAFT FAILURE, FOUND N/A TO S/N. CHECKED ALL AD'S THRU THIS DATE. WASHED DOWN ENGINE. RUN UP OPERATIONAL TEST CHECKED GOOD.

THE AIRCRAFT AND/OR COMPONENTS IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH ALL CURRENT FEDERAL AVIATION ADMINISTATIONS REGULATIONS AND IS APPROVED FOR RETURN TO SERVICE. ALL PERTINENT INFORMATION IS ON FILE UNDER W.O. 2354 DATED 04/11/2013
SIGNED *Howard Chouanard*
HOWARD CHOUANARD, ADVANCED AVIATION INC. PHONE 952-412-3395
A&P 2657747 IA

6

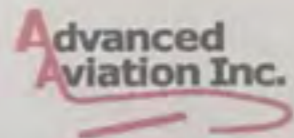
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NUMBER

TOTAL

19__



DATE 11/30/2018 TACH 1194.0 #N177NC

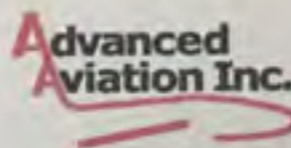
CHANGED OIL AND FILTER CH48110-1 AND ADDED 7QT'S AEROSHELL 15W-50 OIL. REMOVED R/H AND L/H MAGNETOS. REINSTALLED AFTER 500HR INSPECTION BY HORIZON AIRCRAFT ENGINES (SEE YELLOW TAGS). R/H M/N 4370 S/N 94060283 L/H M/N 4373 S/N 94070055. INSTALLED WITH NEW GASKETS, AND TIMED TO ENGINE. RUN UP OPERATIONAL TEST CHECKED GOOD.

THE AIRCRAFT AND/OR COMPONENTS IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH ALL CURRENT FEDERAL AVIATION ADMINISTATIONS REGULATIONS AND IS APPROVED FOR RETURN TO SERVICE. ALL PERTINENT INFORMATION IS ON FILE UNDER W.O. 3054 DATED 11/30/2018

SIGNED *Howard Chouanard* A&P 2657747 IA
HOWARD CHOUANARD, ADVANCED AVIATION INC. PHONE 952-412-3395

DATE	A. D. NUMBER	TOTAL TIME IN SERVICE
19__		

AIRWORTHINESS DIRECTIVES
CHRONOLOGICAL LISTING OF COMPLIANCE AND METHOD OF COMPLIANCE.



DATE 05/23/2019 TACH 1203.4 #N177NC
TTE 3988.2 TSMOH 1849.2

COMPLIED WITH ANNUAL INSPECTION. CHANGED OIL AND FILTER CH48110-1 AND ADDED 7QT'S AEROSHELL 15W-50 OIL. INSPECTED FILTER FOR METAL, NONE NOTED. CHECKED MAG TIMING AND LEADS. CLEANED GAPPED TESTED AND ROTATED PLUGS. COMPRESSION TEST #1 71/80 #2 77/80 #3 73/80 #4 78/80. CLEANED AND INSPECTED FUEL BOWL AND SCREENS. TIGHTENED ALL OIL RETURN LINE CLAMPS. APPLIED CHAFF PROTECTION FOR #4 OIL RETURN LINE AND OIL PRESSURE LINE. CHECKED ALL INTAKE AND EXHUAUST SYSTEMS. INSPECTED AND LUBED ALL ENGINE CONTROLS. INSPECTED MUFFLER AND HEAT COLLECTOR. A LIST OF ALL AD'S COMPLIED WITH IS NOTED IN AIRFRAME LOG. CHECKED ALL AD'S THRU THIS DATE. WASHED DOWN ENGINE, RUN UP OPERATIONAL TEST CHECKED GOOD.

THE AIRCRAFT AND/OR COMPONENTS IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH ALL CURRENT FEDERAL AVIATION ADMINISTATIONS REGULATIONS AND IS APPROVED FOR RETURN TO SERVICE. ALL PERTINENT INFORMATION IS ON FILE UNDER W.O. 3100 DATED 05/23/2019

SIGNED Howard Chouanard A&P 2657747 1A
HOWARD CHOUANARD, ADVANCED AVIATION INC. PHONE 952-412-3395

