

LOG #2

 *The Standard*
ENGINE LOG

ASA-SE-2

11/01/00 0-320-E2D SER. # L-21269-27A DETAILED PARTS LIST.

8 SL72877 LIFTER	4 73938 VALVE INTAKE
2 SL13884 BEARING	4 LW-19001 VALVE EXH
4 SL11020 BEARING	8 LW11795 SPRING VALVE INNER
4 AL75089 PISTON	8 LW11800 SPRING VALVE OUTER
4 AL14077-1 PISTON PIN	4 65441 SEAT
4 SL3601-SC RING SET	4 LW13323 SEAT
8 SL78027 ROD BOLT	4 LW10077 SEAT
8 SL12186 ROD BOLT NUT	4 LW16475 SEAT
8 SL61662 BEARING ROD	8 60009 KEY VALVE INTAKE
4 SL13790A SHAFT ROCKER	8 MS13997-3 KEY VALVE EXH.
4 SL69603 HOSE	4 MS13998-3 CAP VALVE STEM
8 SL12892 THRUST BUTTON	4 LW13923A BUSHING ROD
1 MS16625-1081 RETAIN RING	4 60398 BUSHING ROCKER
1 SL-STD-2213 SCREW	4 74637 BUSHING ROCKER
4 SL-STD-2180 HOSE	1 STD-1065 DOWEL CRANK
1 SL69371-1 GASKET SET M/O/H	1 STD-1211 PLUG CRANK
4 LW12416 CYL.	1 AL05K19423-S IMPELLER KIT
1 10-5009R CARB MA4SPA	1 MZ6222 STARTER LIGHT WT.
1 K-4516 IGN. UPGRADE KIT	1 40295 O/V/H FUEL PUMP
1 BA5705 AIR FILTER ELEMENT	1 CH48110 OIL FILTER
8 REM40E CHAMP. SPARK PLUGS	4 BRY94011-20 MOUNT ISOLATOR
1 76097 O/H CAMSHAFT	1 D0FF10300J O/H ALT.
1 1754001-9 O/H EXH. ASSY.	1 37A19773-376 ALT.DRIVE BELT

YEAR 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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11/01/00 TACH & TT 2491.89 TS0H 00.00

Engine overhaul, Disassembled, cleaned & inspected per Lycoming overhaul manual 60294-7, Lycoming parts manual PC-203-1 and applicable Lycoming SB,SL,SI, & AD's. All steel parts & case halves zygo and magnaflux work done by Bolduc Aviation Specialized Services, Inc. also engine balancing & AD 91-14-22, SB#475RB replace crankshaft gear dowel pin and modify crankshaft gear. and SB#505B & #530A inspect and seal ID of crankshaft under work order #14129 dated 7/21/98 Certified repair station KM5R993M. Crankcase repaired by Divco Inc, certified repair station #DB2R762K WDC #67764 see maint release attached dated 7/15/98. Camshaft reconditioned by Aircraft Engine and Accessory under work order #95226 dated 4/30/98 certified repair station #UI1R533K see maint release attached. Replaced all mandatory replacement parts due at overhaul per SB240N, see detailed parts list attached. Engine converted from 150HP to 160HP per Ly-Con STC SE00252SE see 337 for details. Cylinders were flo-matched by Ly-Con under P/O #7225 dated 4/29/98. Engine reassembled using all new gaskets and seals. Installed new Slick Ignition Upgrade Kit new magnetos and harness part #K-4516. Installed new Champion spark plugs REM40E. Installed overhauled carb. Precision Airmotive MA4SPA see maint release attached dated 7/98, certified repair station #FUXR511K. Installed overhauled A/C Lycoming fuel pump by Aero Accessories, Inc. repair station # YV4R688M see maint release attached dated 11/11/97. Installed new oil pump kit AL05K19423-S per AD 96-09-10 dated 7/15/96. See AD compliance record for complete AD listing.

Owen R. Wass
A&P 1844994IA

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11/01/00

TACH 421.10 TT. 2491.89 TSOH. 00.00

Reinstalled Lycoming 0-320-E2D SER. # L-21269-27A in Cessna Cardinal model 177 ser # 17700949 N29538 after overhaul. Reinstalled using all new isolation mounts (4) each Barry BRY94011-20. Installed complete overhauled exhaust system by Aerospace Welding Minneapolis, Inc. C/R/S #UWDR792L. Reinstalled repaired and primed baffling and all new baffle seals. Installed new Champion REM40E spark plugs. Replaced all flexible fuel and oil lines, replaced all scat tubing. Replaced Brackett air filter installed new BA5705 element. Installed new Champion 48110 oil filter and serviced engine with 8 qts. Shell 50/ non det. oil. Installed new Magnaflite MZ6222 light weight starter by Electrosystems, Inc. Reinstalled DOFF10300J overhauled alternator by Aerotech of Louisville, Inc. C/R/S PU4R453M. and installed new alt belt part #37A19773-376. Installed new O/H Mcauley propeller by EDS Propeller, Inc. C/R/S E1DR140O part #1C172TM7653 SER. #E11859 see maintenance release attached dated 1/20/99. Checked magneto to engine timing, reconnected all engine controls, lubed, checked for travel and operation. AD's checked thru Avantext Rev. 2000-21 see AD compliance record for complete AD report. Engine ground run per Lycoming SI1427B idle mixture and idle speed adjusted, magneto operation smooth and within limits checked engine for fuel and oil leaks none noted, engine ready for test flight and returned to service.

Owen R. Wass
ATP1844994IA

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11/01/00 TACH 421.00 T.T. 2491.89 T.SOH 00.00

I certify this ~~AIRCRAFT~~/ENGINE has been thoroughly inspected IAW an ANNUAL/~~100 HR~~ inspection and was determined to be in an airworthy condition. TT:

Signed: *Owen R Wass* A&P-IA Nr:
Owen R. Wass *A&P 1844994 IA*

1/01/02 TACH 473.38 T.T. 2544.17 TSOH 52.28

ENGINE 100HR/ANNUAL INSPECTION COMPRESSION CHECK #1 76/80 #2 73/80 #3 72/80 & #4 70/80. OIL AND FILTER PREVIOUSLY CHANGED AT TACH TIME 438.58 DATE 1/26/01 ENGINE WAS SERVICED WITH SHELL 50 NON DET. CHECKED MAGNETO TO ENGINE TIMING. INSPECTED AND CLEANED PLUGS AS NEEDED AND REINSTALLED USING NEW GASKETS. INSPECTED ENGINE FOR FUEL AND OIL LEAKS, INSPECTED BAFFLING AND SEALS. CHECKED FLEXIBLE FUEL AND OIL LINES, INSPECTED EXHAUST SYSTEM FOR LEAKS NO DEFECTS NOTED. CLEANED FUEL GASCULATOR AND CHECKED SCREEN. INSTALLED NEW BRACKETT AIR FILTER ELEMENT BA5705. INSPECTED ENGINE CONTROLS FOR TRAVEL AND OPERATION AND LUBED. AD'S RESEARCHED THROUGH ADVANTEXT REV 01/24 SEE AD COMPLIANCE RECORD FOR COMPLETE REPORT. ENGINE RUNUP OPS CHECK OK.

Owen R Wass A&P 1844994 IA

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2/01/03 TACH 497.57 TT 2568.36 TSOH 76.47

ENGINE 100HR/ANNUAL INSPECTION COMPRESSION CHECK #1 78/80 #2 80/80 #3 75/80 #4 75/80. CHANGED OIL AND FILTER SERVICED WITH SHELL 50 AD. CHECKED ENGINE TO MAGNETO TIMING INSPECTED AND CLEANED SPARK PLUGS AND REINSTALLED USING NEW GASKETS. REMOVED AND REPLACED ENGINE AIR FILTER INSTALLED NEW BRACKETT ELEMENT BA5705. INSPECTED ENGINE BAFFLING AND SEALS. CHECKED ENGINE FUEL AND OIL LINES NO DEFECTS NOTED. INSPECTED AND CHECKED OPERATION AND TRAVEL OF ENGINE CONTROLS. REMOVED MUFFLER AND PRESSURE CHECKED NO DEFECTS NOTED REINSTALLED AND INSPECTED ENTIRE EXHAUST SYSTEM FOR CRACKS AND LEAKS NONE NOTED. CLEANED AND CHECKED FUEL GASCULATOR SCREEN. INSPECTED ENGINE FOR FUEL AND OIL LEAKS NONE NOTED. ENGINE RUNUP OPS CHECK OK. AD'S RESEARCHED THROUGH ATP REV. 1/20/03. SEE AD COMPLIANCE RECORD FOR COMPLETE REPORT.

Owen R Wash
A&P 1844994IA

2/01/03 Tach 497.57 T.T. 2568.36 T.SOH 76.47

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by this A&P-IA ENGINE has been thoroughly
inspected and was
found to be in an airworthy condition. TT:

Owen R Wash A&P-IA No: *A&P 1844994IA*

4/01/04 TACH 576.60 TT 2647.37 TSOH 155.48

tions, Tests, Repairs and Alterations
with Name, Rating and Certificate Number of

ENGINE 100 HR/ANNUAL INSPECTION COMPRESSION CHECK #1 78/80 #2 70/80 #3 78/80 #4 80/80. CHANGED OIL AND FILTER SERVICED WITH SHELL 50AD. CHECKED AND RETIMED MAGNETS TO ENGINE CLEANED AND REGAPPED SPARK PLUGS & REINSTALLED USING NEW GASKETS. REMOVED AND REPLACED ENGINE AIR FILTER INSTALLED NEW BRACKET ELEMENT BA5705. INSPECTED ENGINE BAFFLES AND SEAL., INSPECTED FOR FUEL AND OIL LEAKS, INSPECTED ALL ENGINE CONTROLS AND CHECKED TRAVEL AND OPERATION. REMOVED EXHAUST SYSTEM AND PRESSURE CHECKED MUFFLER NO DEFECTS NOTED INSTALLED USED SERVICE-ABLE RISER #3 CYL. EXHAUST SYSTEM REINSTALLED USING NEW EXHAUST GASKETS PART # 77611. CLEANED AND CHECKED FUEL GASCULATOR SCREEN AND BOWL. INSPECTED PROP, SPINNER AND BACKPLATE NO DEFECTS NOTED. AD'S CHECKED THRU ATP REV 3/04. SEE AD COMPLIANCE RECORD FOR COMPLETE REPORT.

Owen R Wass
A&P/8449947A

4/01/04 TACH 576.60 T. T. 2647.37
T. SOH 155.48

I certify this ~~AIRCRAFT/ENGINE~~ ^{& Propeller} has been thoroughly inspected IAW an ANNUAL/100 HR inspection and was determined to be in an airworthy condition. TT:

Signed: **A&P-IA Nr:**

Owen R. Wass *Owen R Wass*
A&P/8449947A

YEAR 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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5/16/2008

N29538

CESSNA 177 CARDINAL

TACH 685.85 TSOH 264.73 TT 2756.62

Completed annual inspection in accordance with manufacturers inspection procedures manual.

1. Engine 100hr/annual inspection performed per Cessna 177 service manual.
2. Changed oil and filter serviced with Aeroshell 100 detergent oil and installed new Champion CH48110-1 filter.
3. Compression check #1 70/80 #2 74/80 #3 70/80 #4 72/80.
4. Removed exhaust system and pressure checked muffler and reinstalled exhaust system using all new gaskets and hardware.
5. Cleaned and gapped all spark plugs and checked magneto to engine timing.
7. Drained carb bowl and inspected carb inlet screen.
8. Removed and replaced engine air filter installed new Brackett element P/N BA5705.
9. Removed vacuum pump and replaced vacuum pump drive garlock seal and gaskets.
10. Inspected engine for fuel and oil leaks, inspected all baffles and seals.
11. Inspected all engine controls and lubed.
12. Inspected propeller and painted aft sides of blades.
- 13 Performed AD search through the AD toolbox REV 2008-04B no new AD's at this time.

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

Signed Owen R. Wass

Owen R. Wass A&P1844994IA

YEAR <i>2014</i> 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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8/24/2014

N29538

CESSNA 177 CARDINAL

Engine Logbook

TACH 784.17 TSOH 363.07 TT.

COMPLETED ANNUAL INSPECTION IN ACCORDANCE WITH MANUFACTURERS INSPECTION PROCEDURE MANUAL

1. Changed oil and filter installed new Air Max OF-51A filter and serviced with 8qts Aeroshell 15W50 oil.
 2. Compression check #1 72/80 #2 70/80 #3 74/80 #4 74/80.
 3. Inspected exhaust system for cracks and leaks.
 4. Inspected engine for fuel and oil leaks.
 5. Cleaned and inspected fuel gasculator.
 6. Inspected engine baffles and seals.
 7. Cleaned and gapped all spark plugs and checked magneto to engine timing.
 8. Installed new Brackett air filter element P/N BA5705.
 9. Inspected propeller blades and hub.
 10. New aircraft battery installed at this time see previous entry dated 8/10/2014 see A/C log.
 11. AD'S checked trough the AD Toolbox REV. 2014- 07B. See AD record for complete compliance.
- I certify that this Aircraft has been inspected in accordance with an annual inspection and was determined to be in an airworthy condition.

Signed

Owen R. Wass

Owen R. Wass A&P1844994IA

12.

YEAR <u>2015</u> 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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Date: 10/01/2015 Hours: TACH 790.20 Name: Owen R. Wass
 Make: CESSNA 177 Model: CARDINAL Certification # A&P1844994IA
 Tail # N29538 Serial: 17700949 Signature: *Owen R Wass*

Form ZA-LSR

Comments:

1. Changed oil and filter installed new Champion CH48110-1 filter and 6.5 qt Aeroshell 15W50 oil.
2. Compression check #1 71/80 #2 74/80 #3 74/80 #4 72/80
3. Inspected engine for fuel and oil leaks none noted.
4. inspected exhaust system for cracks and leaks.
5. Drained carb. bowl and inspected carb. in/et screen.
6. Cleaned and gapped all spark plugs.
7. Inspected air filter found ok for continued service.
8. Checked engine baffles and seals.
9. Inspected propeller blades and hub.
10. AD'S checked through the AD Toolbox rev. 2015-09B see AD records for complete compliance.

T50H: 369.08

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

12.3.2015	811.64		2882.41	Removed and replaced all spark plugs with new Champion REM 40 G spark plugs Cami Lela A/P 2253543
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YEAR 2016 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.)
3.17.2016	820.88		2891.65	removed ^{carb} send for repair by Bulduc after fuel leak, reinstalled, checked for leaks, ran for operational checks on the ground, checked o.k. Ammi Selin A/P 2253543
5.10.2016	841.65		2912.42	Changed oil and filter, installed new Tempes AA 48110-2 and 6.5 qt. Aeroshell 15W-50 oil. Ammi Selin A/P 2253543
5.11.2016	841.65		2912.42	removed and replaced carb heater SCAT tubing Ammi Selin A/P 2253543
6.27.2016	871.30		2942.17	removed and replaced tachometer cable, removed, cleaned and reinstalled spark plugs. ran engine and checked tachometer operation, checked o.k. Ammi Selin A/P 2253543
8.22.2016	890.12		2960.99	changed oil and oil filter, installed new Tempes AA 48110-2 filter and added 6.5 qts. Aeroshell 15W-50 oil + camguard. Ammi Selin A/P 2253543

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YEAR <u>2017</u> 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.)
1.20.2017	908.82		2979.69	Completed annual inspection in accordance with Manufacturers inspection manual.
engine TSOH: 487.70				1. compression check #1 72/80, #2 66/80, #3 70/80, #4 76/80. 2. inspected engine for fuel and oil leaks none noted. 3. inspected exhaust system for crack and leaks. 4. cleaned and inspected fuel gasculator. 5. inspected engine baffles and seals. 6. inspected and cleaned, gapped all sparkplugs. 7. inspected propeller blads and hub. 8. inspected air filter found OK for continued service. AD's checked through AD toolbox software upto AD 09-26-12 dated 02/04/10. I certify that this engine has been inspected in accordance with an annual inspection and was determined to be in an airworthy condition. Arni A/P 2253543 IA.

YEAR 2017 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.)
6.5.2017	916.78	(1.0)	2987.65	removed AeroTech Alternator P/N DOFF 10300J Ser. # A894096 and installed AeroElectric Alternator P/N DOFF 10300 Ser. # A79155. replaced Alternator belt. Ran engine and performed functional check. Volts reading 14.3 V @ all RPM settings.
7.6.2017	12.6 (928.38)		2999.25	Oil change and oil filter change. Installed new Tempest AA 48110-2 oil filter and added 6.5 qts AeroShell 15W-50 oil.
4.6.2018	55.8	Hobbs: 69.3 Hobbs total: 1666.6	3042.55	completed annual inspection in accordance with the manufacturers inspection manuals. 1. changed oil and oil filter, 2. compression check #1 73/80, #2 76/80, #3 75/80, #4 73/80, 3. inspected engine for fuel and oil leaks, 4. inspected exhaust system for cracks and leaks, 5. performed ignition

YEAR <u>2018</u> 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.)
				<p> timing duct. 6. inspected and cleaned gasculator screen. 7. replaced all spark plugs with new Tempost UREM40E sparkplugs. 8. R/R air filter with new filter. 9. checked engine baffles and seal. 10. inspected propeller blades, dressed and repainted back of blades. 11. inspected prop. hub and spinner. 12. installed new Lamar voltage regulator. AD's checked through AD TedBox Rev. dated April 2018. </p> <p> I certify that this aircraft has been inspected in accordance with an annual inspection and was determined to be in an airworthy condition. </p> <p> Ami Sela A/P 2253543 1A </p>