



The Standard

ENGINE LOG

ASA-SE-1

Engine Record General InformationManufacturer Lycoming Model O320 E2DSerial L-21812-27A Type Certificate _____This engine is currently installed in aircraft N-302DBMinimum Octane Fuel 80/87 Oil Grade: Summer 50WT Winter 30WTMagnetto Time 25°BTC Point Setting .016 Firing Order 1-3-2-4Spark Plug Gap .016-019Manufacturer recommended overhaul at 2000 hours

DATE 19 <u>95</u> <u>9-20</u>	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.)
	1496.9		1496.9	Comp Check #1-78/80 #2-78/80 #3-80/80 #4-80/80 Cleaned gapped & tested Spark plugs. Checked timing tested leads. Cleaned fuel filter drained Carb. insp exhaust muffler & Sys. Cleaned air filter. Repaired fuel leak at gasulator Washed Sny & Con L Run Satisfactory. C/W AD 93-18-3 insp OK.
				Date <u>9-20-95</u> Tach <u>1496.9</u> I certify that this <u>Engine</u> has been inspected in accordance with a <u>100 Hour</u> inspection and was determined to be in airworthy condition. Billy R. Gray, AD 1048753A Signed <u>Billy R. Gray</u>

Gray Aviation, Inc.

DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN FLIGHT	Description of Inspection, Tests, Repairs and Alterations
19 <u>96</u>		Gray Aviation, Inc.		Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other special entries.)

OIL CHANGE

9-19	Date <u>9-19-96</u>	Tach <u>1515.6</u>	#1- <u>80/80</u>	#4 <u>80/80</u>
	Type Oil <u>Cessna 15w50</u>		#2- <u>79/80</u>	#5 <u>—</u>
	Number Qts <u>7</u>		#3- <u>80/80</u>	#6 <u>—</u>
	Filter Replaced <u>N/A</u>		SIGNED <u>Billy R. Gray</u>	
	Screens Cleaned <u>✓</u>		# <u>9-19-96</u> Tach <u>1515.6</u>	
	Engine - Cowl Cleaned <u>✓</u>		I certify that this <u>Engine</u>	
	Signed <u>Billy R. Gray</u>		has been inspected in accordance with a	
	# <u>AD1643753</u>		<u>100 hr</u> inspection and was	

Just new m4001515
ignition harness. Installed
Set New Rem406 Spark plugs
Retried lock map.

Billy R. Gray AD1643753
Signed: Billy R. Gray

ON ELECTRO 545
3064

OFF MZ 4206
S/N 14000101

DATE 12-5
RECORDING TACH TIME 1520.8
FLIGHT
TIME IN SERVICE

Description of Inspections, Tests, Repairs and Alterations

Entries must be endorsed with Name, Rating and Certificate Number of Technician or Facility. (See back pages for other specific entries.)

12-5 1520.8

Removed and replaced starter
OFF: Prestolite MZ 4206 S/N 14000101
ON: Electro system PN 2064 S/N 6092
Aps checked OK.

Brig R. Guy AP16 4375

Gray Aviation, Inc.

Gray Aviation, Inc.

DATE 19 97 RECORDING TACH TIME DIFF. TODAY'S FLIGHT 80 PS TOTAL TIME IN SERVICE INPUT PRESS. 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.)

DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS
19 <u>97</u>	<u>DIFF.</u>	<u>80 PS</u>	<u>INPUT PRESS.</u>	
<u>OCT 4</u>	<u>#1-70/80</u>	<u>#4</u>	<u>65/80</u>	<u>Date OCT 4 97 Tach 1532.4</u>
	<u>#2-75/80</u>	<u>#5</u>	<u>—</u>	Type Oil <u>Aerobase 15W50</u>
	<u>#3-65/80</u>	<u>#6</u>	<u>—</u>	Number Qts. <u>7</u>
				Filter Replaced <u>N/A</u>
				Screens Cleaned <u>✓</u>
				Engine - Cowl Cleaned <u>✓</u>
SIGNED	<u>Billy R. Gray</u>			Signed <u>Billy R. Gray</u>
	<u># AP1643753A1</u>			<u># 4-OCT 97 Tach 1532.4</u>
	<u>#1 Cyl removed - deglazed & cyl</u>			<u>I certify that this engine</u>
	<u>was reinstalled. Replaced Carb</u>			<u>has been inspected in accordance with a</u>
	<u>Heat Cable. Replaced Carb inlet</u>			<u>inspection and was</u>
	<u>hose. Adjust idle mix & RPM.</u>			<u>determined to be in airworthy condition.</u>
				<u>Billy R. Gray AP 1643753A1</u>
				<u>Signed: Billy R. Gray</u>

Gray Aviation, Inc.

Gray Aviation, Inc.

DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS
19 <u>98</u>		80 PS	INPUT PRESS	Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
11-10	#1- <u>72/80</u>		#4 <u>72/80</u>	Type Oil <u>Amsoil 15W50</u>
	#2 <u>72/80</u>		#5 <u>—</u>	Number Qts. <u>7</u>
	#3 <u>76/80</u>		#6 <u>—</u>	Filter Replaced <u>N/A</u>
				Screens Cleaned <u>✓</u>
				Engine - Cowl Cleaned <u>✓</u>
	SIGNED <u>Billy R. Gray</u>			Signed <u>Billy R. Gray</u>
	# <u>AP1643753AT</u>			# <u>AP1643753A1</u>
				Date <u>11-10-98</u> Tach <u>1548.0</u>
	<u>PD 98-02-08 DUO @</u>			I certify that this <u>Engine</u>
	<u>1000 Hrs SMITH See old Log</u>			has been inspected in accordance with a
	<u>Book.</u>			<u>Manual</u> inspection and was
				determined to be in airworthy condition.
				Billy R. Gray AP1643753A1
				Signed: <u>Billy R. Gray</u>

Gray Aviation, Inc.

Gray Aviation, Inc.

DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS
98 19		80 PS	INPUT PRESS	Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
11-10	#1- 72/80	#4	72/80	Type Oil <u>Amsoil 15W50</u>
	#2- 72/80	#5	—	Number Qts. <u>7</u>
	#3- 76/80	#6	—	Filter Replaced <u>N/A</u>
				Screens Cleaned <u>✓</u>
				Engine - Cowl Cleaned <u>✓</u>
	SIGNED <u>Billy R. Gray</u>			Signed <u>Billy R. Gray</u>
	# <u>AP1643753A1</u>			# <u>AP1643753A1</u>
				Date <u>11-10-98</u> Tach <u>1548.0</u>
	<u>PD 98-02-08 DVO @</u>			I certify that this <u>Engine</u>
	<u>1000 hrs SMCH See old log</u>			has been inspected in accordance with a
	<u>Power</u>			<u>Amsoil</u> inspection and was
				determined to be in airworthy condition.
				Billy R. Gray <u>AP1643753A1</u>
				Signed: <u>Billy R. Gray</u>

Gray Aviation, Inc.

Gray Aviation, Inc.

DATE 11-1-99 RECORDING TACH TIME 1554.9 TODAY FLIGHT 11-1-99 TOTAL TIME IN SERVICE 11-1-99

CHANGELINE 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.)

80 PSI INPUT PRESS.

Type Oil Perstroke-15W50 #1- 70/80 #4- 70/80

Number Qts. 7 #2- 71/80 #5- ---

Filter Replaced N/A #3- 70/80 #6- ---

Screens Cleaned ---

Engine - Cowl Cleaned ---

Signed Billy R. Gray SIGNED Billy R. Gray

AP1643753AI # AP1643753AI

Replaced induction air filter BA ---

5705. Dynamometer at front of lower ---

cowl. ---

DATE
2000
10RECORDS
TACH

OIL CHANGE

Facility. (See back pages for other specifications) 60 PSI INPUT PRESS.

Date 11-17-00 Tach 1615.1

Type Oil Aerogheel 15W50

Filter Replaced N/A

Screens Cleaned

Belt - Cowl Cleaned

Signed Billy L. Gray

AP1643753AI

Removed and replaced

Alternator with Aero

Electric Overhauled

Unit.

72/80 #4 72/80

74/80 #5

73/80 #6

SIGNED Billy L. Gray

AP1643753AI

Tach

I certify that this engine

has been inspected with a

Compass inspection and was

determined to be in condition.

Billy L. Gray 1643753AI

Signed: Billy L. Gray

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.)
				Grav Aviation, Inc.
				OIL CHANGE
				Date <u>6-28-01</u> Tach <u>1644.7</u>
				Type Oil <u>Aeromarine 15W50</u>
				Number Qts. <u>4</u>
				Filter Replaced <u>NO FILTER</u>
				Screens Cleaned <u>✓</u>
				Engine - Cowl Cleaned <u>✓</u>
				Signed <u>Bug R. Grav</u>
				# <u>AP1642253AD</u>

- When installing drive gear or driver onto magneto, torque nut provided to 120-320 inch lbs.
- Use only the installation hardware provided

DATE	RECORDING TACH TIME	TOE FLIGHT	TOTAL TIME IN SERVICE	Description of inspections, Tests, Repairs and Alterations
11-30-01				Entries must be endorsed with Name, Rating and Certificate Number of Technician or Facility. (See back pages for other specific entries)
Date 11-30-01	Tach 1672.2			
Type Oil	Castrol 15W50			#1 76/80 #4 78/80
Number Qts.	7			#2 78/80 #5
Filter Replaced	NO FILTER			#3 80/80 #6
Screens Cleaned	✓			
Engine - Cowp Cleaned	✓			SIGNED Billy R. Gray
Signed Billy R. Gray				Date 11-30-01 TACH 1672.2
# AD1643753AT				# I certify that this engine
				has been inspected in accordance with
				100 Hour inspection
AD 86-09-10 Does NOT APPLY				detailed in FAR PART 43 APPENDIX D, and was
Engine Has Keyed Shaft datum				determined to be in an airworthy condition, and is
PW 60747 inspection				approved for return to service.
C/W 98-02-8 By Insp Per SB 505B				Signed Billy R. Gray
NO PITTING OR CRACKS FOUND Due				INSP# AD1643753AT

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 2002 1-10				TACH 1684.4 HRS Replaced left magnets with new Part 4371R SN OFF 6029126 S/N ON 01113310. Installed Customer furnished Reiff engine Preheat System Standard type Listed O.K. Brian R. Gray AP1645757AI

DATE 19__
RECORDING TACH TIME
TODAY'S FLIGHT
TOTAL TIME IN SERVICE

Gray Aviation, Inc.

DIFF. COMP. CHECK

80 PSI INPUT PRESS.

#1 72/80 #4 78/80

#2 74/80 #5

#3 80/80 #6

SIGNED Billy R. Gray

AP1643753 A2

Description of Inspections, Tests, Repairs and Alterations

Entries must be endorsed with Name of Performing Technician, Date, and Number of Technician or Repair Facility. (See back pages for other specific entries.)

Gray Aviation, Inc.

OIL CHANGE

Date: 9 Dec 2002 Tach 1732.8

Type Oil Quaker 15W50

Number Qts. 7

Filter Replaced N/A

Screens Cleaned ✓

Date: 9 Dec 2002 Tach 1732.8

Engine - Cowling Cleaned
I certify that this Engine
has been inspected in accordance with a
100 Hour inspection as
detailed in FAR PART 43 APPENDIX D, and was
determined to be in an airworthy condition, and is
approved for return to service.

Signed Billy R. Gray

INS# AP1643753 A2

DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME SERVICE	Description of Inspections, Tests, Repairs and Alterations
Gray Aviation, Inc. DIFF. COMP. CHECK				Gray Aviation, Inc. Entries must be endorsed for maintenance. (Indicate Number of Technician or Repair Facility. (See back pages for other specific entries).)
		80 PSI INPUT	PRESS.	OIL CHANGE Date <u>12-10-03</u> Tach <u>1824.7</u> Type Oil <u>Murphy 15W50</u> Number Qts. <u>7</u> Filter Replaced <u>No Filter</u> Screens Cleaned <u>✓</u> Engine - Cowl Cleaned <u>✓</u> Signed <u>Gray</u>
#1	<u>74/80</u>	#4	<u>76/80</u>	
#2	<u>74/80</u>	#5		
#3	<u>76/80</u>	#6		
SIGNED	<u>Gray R. Gray</u>			
#		Date		
		I certify that this <u>Engine</u> has been inspected in accordance with a <u>visual</u> inspection as detailed in FAR PART 13 APPENDIX D, and was determined to be in an airworthy condition, and is approved for return to service.		
		Signed	<u>Gray R. Gray</u>	
			<u>AP1643753AD</u>	

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.)
2-10-04	Tach	1838.4		Installed used primer line to #1 cyl. and 5 new primer line clamps. 405 AD 98-01-06 dated 2/13/98 by visual insp. next due 1938.4. Installed new engine air filter element. Pick Jackson ATP 429062736
7-28-04	Tach	1869.2		Changed oil & serviced with shell 100/60w. Installed Peterson auto STC # SE1931CE see 332 for details. Pick Jackson ATP 429062736

FAA FORM 8
Airworthiness Approval
User/Installer Responsibility

is important to understand that this Document alone does not constitute authority to install the component/assembly.

where the user/installer work in accordance with the national regulations of a country different than the country of the country specified in the user/installer's Airworthiness Authority approval documents/assemblies from the Authority of the country specified in block 14 and 19 do not constitute certification. In all cases, the regulations issued in accordance with the regulations issued in accordance with Form 8130-3 and JAA Form One must be flow-n. Other countries such as Canada and JAA Form One must be flow-n. Other countries such as Canada and JAA Form One must be flow-n.

RECOMMENDED THAT THE AIRCRAFT BE FAMILIAR WITH THE AIRCRAFT EMERGENCY PROCEDURES.

RECOMMENDED THAT THE AIRCRAFT BE FAMILIAR WITH THE AIRCRAFT EMERGENCY PROCEDURES.

DATE

19

TIME

SERVICE

Facility. (See back pages for other specific entries.)

9-3-04

TACK 1909

Changed oil + serviced with
shell Plus 100/50w.
Rick Jackson ATP 429069236

9-7-04

Installed overhauled vacuum pump.
SN 114598

Rick Jackson ATP 429069236

