

The Standard

ENGINE LOG

ASA-SE-1

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.)
11/18/2022				<p>Lycoming O-320-E2D, SN: L-36043-27A, TTE: 2696.9, SMOH: 0.0. This engine was overhauled to new parts limits IAW Lycoming Overhaul Manual Direct Drive Engines PN: 60294-7 and SSP-1776, Part 1. See engine logs for appropriate FAA Form 8130-3's for overhaul of the following items: Crankshaft PN: 76591 SN: 92135, Connecting Rods 4 each PN: 78030, Crankcase PN: 77366 SN: 7302, Accessory Housing PN: LW-12407, Lifters 8 each PN: 72877, Hydraulic Units 8 each PN: 78290, Tachometer Shaft PN: 76121, Crankshaft Idler Gears 2 each PN: 74996, Rocker Arms 8 each. New items installed as follows: Crankshaft Main Bearings 8 each PN: SL68763A M006, Connecting Rod Bearings 8 each PN: SL61662A M003, Connecting Rod Bolts 8 each PN: SL78027, Connecting Rod Nuts 8 each PN: SL12186, Thru Bolts 4 each PN: AEL76220, Crankshaft Gear Screw 1 each PN: SL-STD-2213, Crankshaft Gear Lock Plate 1 each PN: SL18639, Cylinder Assemblies 4 each PN: TIST04.0CA, SN's: #1- AC211C357, #2- AC20GB504, #3- AC1CA100, #4- AC21CA144 all piston weights are 1140 Grams, Hexagon Nuts 18 each PN: STD-2090, Hexagon Nuts 16 each PN: SL383-B, Piston Pins 4 each PN: LW-14078, Piston Pin Plugs 8 each PN: 72198, Oil Pump Housing 1 each PN: SL78528-2, Oil Pump Kit 1 each PN: SL78528, Oil Pump Drive Shaft 1 each PN: SL61174A-G, Valve Oil Control Vernatherm 1 each PN: SL53E19600, Oil Pressure Relief Spring 1 each PN: 61084, Oil Pressure Relief Ball 1 each PN: 1028-B, Gear Magneto Impulse Coupling 1 each PN: SL61665, Gear Magneto Non-Impulse 1 each PN: SL68C19622, Cylinder Gasket Set 4 each PN: AEL12032-SC, Engine Gasket Set 1 each PN: SL69371-1 (SPL), Induction Hose 4 each PN: SL69603, Oil Return</p>

YEAR 20 DATE
<p>Hose 4 Overha Model PN's: 15 Inc., Hy Airwort records Test Pro William</p>
<p>11/18/2 Lycomin book ent service.</p>

YEAR 20 DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations
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Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)

Hose 4 each PN: SL-STD-2180, Spark Plugs Tempest PN: UREM-38E, Ignition Harness Slick PN: M4001. -----
Overhauled/Rebuilt items: Magnetos 1 each PN: 4370 SN: K-09213 and PN: 4371 SN: K-10209, Carburetor 1 each
Model: MA-4SPA, PN: 10-5009 SN: MS10K612. Serviceable items (within new limits) Pushrod Assemblies 8 each
PN's: 15F19957-11/-12/-13, Crankshaft Gear 1 each PN: 61155 W/O: 268253-2 / 08/27/2022 Aircraft Specialties,
Inc., Hydraulic Sockets 8 each PN: 15B26066 W/O: 268253 / 08/27/2021 Aircraft Specialties Services, Inc. All
Airworthiness Directives are current up through FAA Biweekly 2022-24, 11/17/2022-11/20/2022, see engine
records for complete details. Upon completion of Lycoming Overhaul Manual Direct Drive Engines: Section 9,
Test Procedures this engine will be certified for return to service. -----END-----
William A. Latham, Jr. AP3557002IA *William A. Latham, Jr.*

11/18/2022, Lycoming O-320-E2D, SN; 36043-27A, TTE: 2696.9, SMOH: 0.0. This engine requires compliance with
Lycoming Overhaul Manual Direct Drive Engines PN: 60294-7, Section 9, Test Procedures and an appropriate log
book entry detailing said procedures has been entered by a properly rated engine mechanic prior to return to
service. -----END----- William A. Latham, Jr. AP3557002IA *William A. Latham, Jr.*

N64431

The Standard



ENGINE LOG

ASA-8E-2

DATE 2013 49	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.)
<u>General Aviation Maintenance LLC.</u>				
DATE: 09/04/2013				Engine W/O # 2013-21
Model: Lycoming				O-360-E2D S/N: L-36043-27A
Tach: 6496.9 hrs.				SMOH: 2696.9 hrs. TTIS: 6496.9 hrs.
<p>Conducted a 100 hr/Annual inspection in accordance with an 100 hr/Annual inspection checklist, Drained engine oil, cut open the oil filter and checked for metal, none was found. Installed a new oil filter P/N CH481010-1 and serviced with 7 qts of 15W-50 aeroshell oil. Removed sparkplugs, cleaned, gapped, tested and reinstalled sparkplugs. Performed a cylinder compression test, results as follows #1 70/80, #2 75/80, #3 63/80, and #4 74/80. Checked magnetos timing @ 25 degrees BTC. Checked magneto leads. Installed a new air induction filter P/N: BA-6108. Cleaned and inspected all fuel screens. Drained the carburetor fuel bowl. Replaced the crankshaft plug STD-1211. All AD's complied with to this date, see the AD compliance paperwork dated 09/04/2013 for more detail. Run engine to check for oil leaks, none were found. Operational check found to be satisfactory. I certify that this engine has been inspected in accordance with a 100 hr/Annual Inspection checklist and I have determined it to be in airworthy condition.</p> <p style="text-align: center;"><i>Timothy W Hurt</i> Timothy W Hurt I.A.2781659</p>				
<u>General Aviation Maintenance LLC.</u>				
Date: 09/04/2013				Propeller N64431
Make: McCauley				Model: 1C160/DTM S/N: 724201
Tach: 6496.9 hrs.				TTIS: 6496.9 hrs. SMOH: 2696.9 hrs.
<p>I certify that this propeller has been inspected and serviced in accordance with a 100hr/Annual Inspection checklist and I have determined it to be in airworthy condition. All AD's complied with to this date, see the AD compliance paperwork dated 09/04/2013 for more detail.</p> <p style="text-align: center;"><i>Timothy W Hurt</i> Timothy W Hurt I.A.2781659</p>				

Airworthiness Directive Compliance Report

Date: 11/18/2022

Tail:

S/N:

Hours:

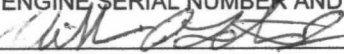
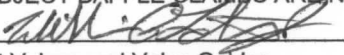
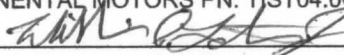
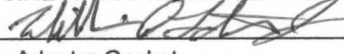
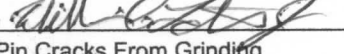

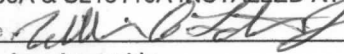
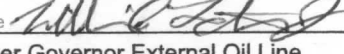
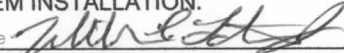
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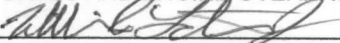
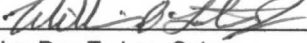
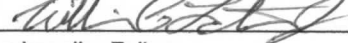



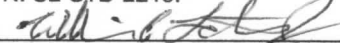


Engine: Lycoming O-320-E2D

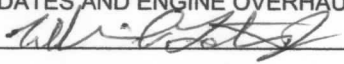
S/N: L-36043-27A

Hours: TTE: 2696.9, SMOH: 0.0

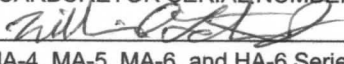

Engine: Lycoming O-320-E2D

AD#	Category	Subject	Amdt #	Eff Date	Recurring
55-02-02	Engine	Accessory Drive Adapter Gasket		02/28/55	
Date/Hours at Compliance:		Method of Compliance:			
11/18/2022, SMOH: 0.0		N/A BY ENGINE SERIAL NUMBER AND GASKET PART NUMBER.	Name: William A. Latham, Jr.		
Next Due Date/Hours:		Signature: 	Cert#: 3557002		
59-10-07	Engine	Cylinder Baffle Clamps		07/01/59	
Date/Hours at Compliance:		Method of Compliance:			
11/18/2022, SMOH: 0.0		N/A SUBJECT BAFFLE CLAMPS ARE NOT INSTALLED.	Name: William A. Latham, Jr.		
Next Due Date/Hours:		Signature: 	Cert#: 3557002		
63-23-02	Engine	Exhaust Valves and Valve Guides	39-627	12/09/63	Yes
Date/Hours at Compliance:		Method of Compliance:			
11/18/2022, SMOH: 0.0		N/A CYLINDERS REPLACED AT OVERHAUL 11/18/2022 WITH NEW CONTINENTAL MOTORS PN: T1ST04.0CA.	Name: William A. Latham, Jr.		
Next Due Date/Hours:		Signature: 	Cert#: 3557002		
64-16-05	Engine	Oil Seal Failure in AC Fuel Pumps	765	07/10/64	
Date/Hours at Compliance:		Method of Compliance:			
11/18/2022, SMOH: 0.0		N/A ENGINE IS NOT EQUIPPED WITH FUEL PUMP.	Name: William A. Latham, Jr.		
Next Due Date/Hours:		Signature: 	Cert#: 3557002		
66-20-04	Engine	Oil Filter Adapter Gasket	39-277	08/27/66	
Date/Hours at Compliance:		Method of Compliance:			
11/18/2022, SMOH: 0.0		N/A SUSPECT GASKET NOT INSTALLED.	Name: William A. Latham, Jr.		
Next Due Date/Hours:		Signature: 	Cert#: 3557002		
73-23-01	Engine	Piston Pin Cracks From Grinding	39-2804	01/13/77	
Date/Hours at Compliance:		Method of Compliance:			
11/18/2022, SMOH: 0.0		N/A ENGINE OVERHAULED 11/18/2022, PIN PN: LW-14078 INSTALLED.	Name: William A. Latham, Jr.		
Next Due Date/Hours:		Signature: 	Cert#: 3557002		
75-08-09	Engine	Oil Pump Drive Shaft and Impeller	39-3013	08/18/77	
Date/Hours at Compliance:		Method of Compliance:			
11/18/2022, SMOH: 0.0		N/A OIL PUMP DRIVE SHAFT PN: SL61174A-6 AND IMPELLERS PN's SL18109A & SL18110A INSTALLED AT OVERHAUL.	Name: William A. Latham, Jr.		
Next Due Date/Hours:		Signature: 	Cert#: 3557002		
87-10-06 R1	Engine	Rocker Arm Assembly	39-6293	09/01/89	
Date/Hours at Compliance:		Method of Compliance:			
11/18/2022, SMOH: 0.0		N/A BY ENGINE S/N AND OVERHAULED 11/18/2022.	Name: William A. Latham, Jr.		
Next Due Date/Hours:		Signature: 	Cert#: 3557002		
90-04-06 R1	Engine	Propeller Governor External Oil Line	39-6915	05/28/91	
Date/Hours at Compliance:		Method of Compliance:			
11/18/2022, SMOH: 0.0		N/A ENGINE IS NOT CAPABLE OF PROPELLER GOVERNOR SYSTEM INSTALLATION.	Name: William A. Latham, Jr.		
Next Due Date/Hours:		Signature: 	Cert#: 3557002		

92-12-05	Engine	Piston Pin Failure	39-8265	07/10/92
Date/Hours at Compliance:		Method of Compliance:		
11/18/2022, SMOH: 0.0		N/A BY DATES AND ENGINE OVERHAULED 11/18/2022.		Name: William A. Latham, Jr.
Next Due Date/Hours:		Signature 		Cert#: 3557002
93-11-11	Engine	Diaphragm Fuel Pumps Overhauled (by AAI)	39-8584	06/21/93
Date/Hours at Compliance:		Method of Compliance:		
11/18/2022		N/A ENGINE IS NOT EQUIPPED WITH ENGINE DRIVEN FUEL PUMP.		Name: William A. Latham, Jr.
Next Due Date/Hours:		Signature 		Cert#: 3557002
95-26-02	Engine	Detonation Due To Low Octane	39-9460	01/24/96
Date/Hours at Compliance:		Method of Compliance:		
11/18/2022, SMOH: 0.0		N/A ENGINE OVERHAULED 11/18/2022.		Name: William A. Latham, Jr.
Next Due Date/Hours:		Signature 		Cert#: 3557002
96-09-10	Engine	Oil Pump Impeller Failure	39-9586	07/15/96
Date/Hours at Compliance:		Method of Compliance:		
11/18/2022, SMOH: 0.00		N/A BY INSTALLATION OF IMPELLERS SL18110A & SL18109A AT OVERHAUL.		Name: William A. Latham, Jr.
Next Due Date/Hours:		Signature 		Cert#: 3557002
97-15-11	Engine	Piston Pin Failure	39-10085	08/12/97
Date/Hours at Compliance:		Method of Compliance:		
11/18/2022, SMOH: 0.0		N/A BY DATES AND ENGINE OVERHAULED 11/18/2022.		Name: William A. Latham, Jr.
Next Due Date/Hours:		Signature 		Cert#: 3557002
98-02-08	Engine	Crankshaft Corrosion Pits	39-10291	03/30/98 Yes
Date/Hours at Compliance:		Method of Compliance:		
12 OCT 2021		COMPLIED WITH MSB 505B DATED: 01 DEC 1997 & MSB 530B		Name: William A. Latham, Jr.
Next Due Date/Hours:		DATED: 22 NOV 2004 BY AIRCRAFT SPECIALTIES SERVICES. INC.		
AT OVERHAUL OR CRANKSHAFT REMOVAL.		Signature 		Cert#: 3557002
98-17-11	Engine	Crankshafts Installed by Nelson Balancing Service	39-10713	10/19/98
Date/Hours at Compliance:		Method of Compliance:		
11/18/2022, SMOH: 0.00		N/A NO CRANKSHAFT SERVICING HAS BEEN PERFORMED MY NELSON BALANCING SERVICE.		Name: William A. Latham, Jr.
Next Due Date/Hours:		Signature		Cert#: 3557002
04-10-14	Engine	Crankshaft Gear Retaining Bolt	39-13644	06/25/04 Yes
Date/Hours at Compliance:		Method of Compliance:		
11/18/2022, SMOH: 0.0		C/W AT OVERHAUL IAW LYCOMING MSB No. 475C, INSTALLED		Name: William A. Latham, Jr.
Next Due Date/Hours:		CRANKSHAFT GEAR PN: 13S19646, LOCK PLATE PN: SL18639, BOLT PN: SL-STD-2213.		
UPON PROPELLER STRIKE OR SUDDEN STOPPAGE.		Signature 		Cert#: 3557002
06-12-07	Engine	ECi Cylinder Assemblies	39-14632	07/11/06
Date/Hours at Compliance:		Method of Compliance:		
11/15/2022, SMOH: 0.0		N/A CONTINENTAL MOTORS CYLINDERS PN: TIST04.0CA		Name: William A. Latham, Jr.
Next Due Date/Hours:		INSTALLED.		
		Signature 		Cert#: 3557002
07-04-19 R1	Engine	Superior Air Parts Cylinder Assemblies	39-15005	05/07/07
Date/Hours at Compliance:		Method of Compliance:		
11/18/2022, SMOH: 0.0		N/A CONTINENTAL MOTORS CYLINDERS PN: TIST04.0CA		Name: William A. Latham, Jr.
Next Due Date/Hours:		INSTALLED.		
		Signature 		Cert#: 3557002
09-26-12	Engine	ECi Cracked Cylinder Assemblies	39-16151	02/04/10 Yes
Date/Hours at Compliance:		Method of Compliance:		
11/18/2022, SMOH: 0.0		N/A CONTINENTAL MOTORS CYLINDERS PN: TIST04.0CA		Name: William A. Latham, Jr.
Next Due Date/Hours:		INSTALLED.		
N/A		Signature 		Cert#: 3557002

17-16-11	Engine	Connecting Rod Failure	39-18988	08/15/17
Date/Hours at Compliance:		Method of Compliance:		Name: William A. Latham, Jr.
11/18/2022, SMOH: 0.0		N/A BY DATES AND ENGINE OVERHAULED 11/18/2022.		Cert#: 3557002
Next Due Date/Hours:		Signature 		

Appliance: Power Plant - Fuel Systems - Carburetors

AD#	Category	Subject	Amdt #	Eff Date	Recurring
69-24-03	Appliance	MA-3, MA-4, MA-5, MA-6, and HA-6 Series - Metering Passages	39-881	11/29/69	
Date/Hours at Compliance:		Method of Compliance:		Name: William A. Latham, Jr.	
11/18/2022		N/A BY CARBURETOR SERIAL NUMBER.		Cert#: 3557002	
Next Due Date/Hours:		Signature 			
72-06-05 R2	Appliance	MA-3, MA-4, MA-5, MA-6, and HA-6 Series - Throttle Arm	39-5338	07/03/86	
Date/Hours at Compliance:		Method of Compliance:		Name: William A. Latham, Jr.	
11/18/2022		N/A BY THROTTLE ARM CONFIGURATION.		Cert#: 3557002	
Next Due Date/Hours:		Signature 			

**ENGINE
LOGBOOKS
HISTORY & AD LISTING
LYCOMING
Model: O-320-E2D
Serial Number:
L-36043-27A**

N64431

The Standard
 **ENGINE LOG**

ASA-SE-2

 *The Standard*
ENGINE LOG

ASA-SE-1

Break-In Instructions for Fresh Overhauled Engines

- 1. Before Start:** Fill engine oil sump with the correct amount of Straight Weight Mineral Oil; corresponding to the outside air temperature the engine will be operating in. With the spark plugs removed, motor the engine over to verify positive oil pressure.
- 2. Initial Start:** Re-install the spark plugs and start the engine. Run the engine long enough to check magneto RPM drop, propeller operation (if applicable), fluid leaks, proper engine operation and indications. Shut down the engine, inspect for leaks and other installation errors. Allow the engine to completely cool, then start again and run approximately four (4) minutes. Inspect engine once again for leaks and other possible problems. If no problems are found the aircraft is ready to be flown.
- 3. Initial Flight:** For the initial flight it is recommended to get airborne as soon as possible. Use approximately 5-10 knots extra climb speed above normal. Remain close to the airport for safety and continually monitor the cockpit gauges for normal indications. Fly the aircraft for thirty (30) minutes, return to the airport, and perform another leak and installation inspection of the engine.
- 4. Second and Subsequent Flights:** Cruise at a minimum 75% power for the first ten (10) hours of engine operation. **DO NOT** perform touch & go landings with the aircraft until a minimum of ten (10) hours of flight has been conducted. If traveling on long cross-country flights, at altitude, lean the engine to 100 degrees rich of peak EGT. This to keep the combustion temperatures at a reasonable level.
- 5. Oil Changes:** At ten (10) and thirty-five (35) hours the oil and filter must be changed. Maintain the use of straight weight mineral oil for the first fifty (50) hours of engine operation if applicable to your model engine. After the first fifty (50) hours of operation ashless dispersant oils can be used. Yesterwings LLC recommends **STRAIGHT WEIGHT** ashless dispersant oil that is appropriate for the outside air temperature that the aircraft is operating in.

Note: If your engine is equipped with an oil screen in lieu of an oil filter the oil change intervals will be changed to the following: ten (10), twenty-five (25) and fifty (50) hours. The normal oil change intervals after the initial fifty (50) hours should be every twenty-five (25) hours.

ENGINE LOGBOOKS

Airworthiness Directive Compliance Report

OH: 0.0

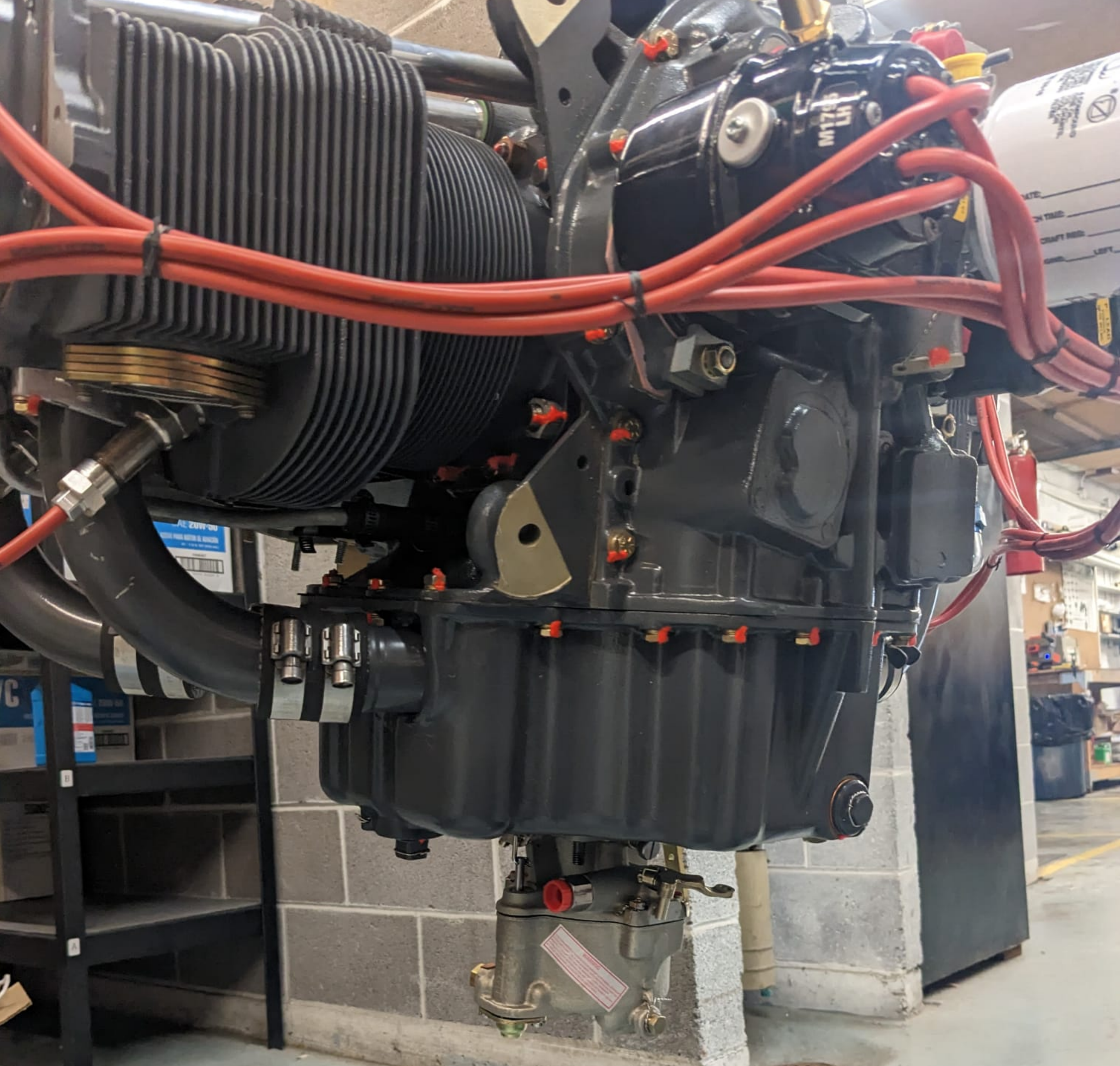
Eff Date	Recurring
02/28/55	
Name: William A. Latham, Jr.	
Cert#: 3557002	
07/01/59	
Name: William A. Latham, Jr.	
Cert#: 3557002	
12/09/63	Yes
Name: William A. Latham, Jr.	
Cert#: 3557002	
07/10/64	
Name: William A. Latham, Jr.	
Cert#: 3557002	
08/27/66	
Name: William A. Latham, Jr.	
Cert#: 3557002	
01/13/77	
Name: William A. Latham, Jr.	
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09/01/89	
Name: William A. Latham, Jr.	
Cert#: 3557002	
05/28/91	
Name: William A. Latham, Jr.	
Cert#: 3557002	

Report By: William A. Latham, Jr. 3557002

Assembled By The AD Toolbox Online

LYCOMING AIRCRAFT ENGINE 274
MODEL 0-320-E2D
S/N L-35043-27A
FUEL-OIL MIX 80/20 PROP. RATIO
TAXI-OFF-ON MIN. H.P. AT
NORMAL-RATED 150 H.P. AT 2700
CRANK. MIN. VALVE CL. 50 IN.
VENT. HRS. SPK. AT 25°
LYCOMING DIV. OF PRATT & WHITNEY CORP.









KANSAS CITY HELICOPTER

