

AIR TIME AND

DATE	DAILY TOTAL		TOTAL AIR TIME SINCE MFG.		ENGINEERING RECORD <small>NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE</small>
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD					
2-16-2016	N164JD	Tach: 5420.8	Airframe TT: 5136.5	Prop Time: 88.9	
					Removed wheels, greased bearings and gear, checked brakes, checked electrical system and battery. Checked all controls and oiled as needed. Removed all inspection plates and checked structure. Checked cockpit belts, lights and instrument operation. Functionally checked emergency locator transmitter per FAR91.207 para. due change 6-17. 91.411 altimeter due and 91.413 transponder due. Removed Canadian registration markings CF-ZMK and installed new U.S. registration number N164JD. Complied with AD 76-07-12 Bendix ignition switch, checks OK. Complied with AD11-10-09 seat and rail inspection, checks OK. Complied with AD96-12-22 oil filter adapter inspection - no defects noted. Comply with ADD4-19-01 shoulder harness by removing spring. Comply with AD79-25-07 by installing ground strap. Installed P. Ponk in accordance with STC SA2918NM P. Ponk kit part number PSK1101-1 S/N 2905. Inspected previously installed bracket air filter in accordance with STC SA71GL. Installed JPI 830 in accordance with STC SA2586NM and STC SA00432SE fuel flow option. See 337 dated 1-22-2016. Updated equipment list and weight and balance. Replaced carburetor air box seal. Repaired ground at stall warning switch, checks OK. Repaired ground at Pitot tube, checks OK. Replaced engine baffle flex seal as required. Replaced fuel line from carb to gascolator. New vacuum line installed from pump to firewall. Replaced O-ring in LH brake master cylinder. Replaced instrument air filter and vacuum regulator filter. Installed new Left Hand instrument panel rubber mounts. Installed new instrument lines as required. Replaced left hand and right hand landing lights, checks ok. Cleaned beacon light socket assembly, checks ok. Replaced leading edge air inlet adapter and hoses for rear cabin air. Fabricate new brake lines. Installed fuel quantity placards on wings. Replaced Left Hand Inboard aft flap roller. Replaced fuel strainer plunger and seals. Replaced cowl inlet clips part number 0752021-1. Replaced Left hand and Right hand pilot rudder pedals. Re-index pitch trim indicator and replaced one detent on wheel, checks OK. Replaced Right hand wing drain. Replaced muffler with seaplane muffler. Installed static air valve. Installed insulation on Left hand and Right hand wing roots. Replaced wear buttons on flaps as required. Repaired Left hand forward engine baffle as required. Replaced Left hand and Right hand wingtips. I certify that this aircraft has been inspected in accordance with an Annual Inspection and was determined to be in an airworthy condition. The airframe identified herein was repaired and inspected in accordance with current FAR's and is approved for return to service. Pertinent details of the repair are on file at this Repair Station under Work Order #11031 dated 2-16-2016 by <u>John D. [Signature]</u> Airways Aviation Center, 2002 Airport Road, Grand Rapids, MN 55744 AWOR120N
2-19-2016	Tach	5420.8			Installed led landing lights <u>JAW STC SA00344RD</u> OPS good See 337 this date.
					The Aircraft, Airframe, Aircraft Engine, Propeller or Appliance Identified herein was repaired and inspected in accordance with current FAR's and is approved for return to service. Pertinent details of the repair are on file at this Repair Station under W/O # <u>11031</u> Date <u>2-19-16</u> By <u>[Signature]</u> Airways Aviation Center 2002 Airport Road, Grand Rapids, MN 55744 AWOR120N
					CARRIED FORWARD


ENGINEERING RECORD

INSPECTION, REPAIRS & REPLACEMENT
 ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.

SIGNATURE

LICENCE
NUMBER

**I FIND THE AIRCRAFT MEETS THE REQUIREMENTS
 FOR THE CERTIFICATE REQUESTED AND HAVE ISSUED
 A STANDARD AIRWORTHINESS CERTIFICATE DATED
 27 FEB 2016, THE NEXT ANNUAL INSPECTION IS
 DUE 01 MAR 2017.**


**THOMAS A. SEAMANS
 DART400135GL**

N# 16450

Riegelman Aviation Co., LLC
 Ph. (715) 686-7523 Cell (262) 994-6706
 FAA CRS # RNTR687Y

DISCREPANCY

VFR transponder test due as
required
by FAR 91.413

CORRECTIVE
ACTION

Test satisfactory as per FAR
#3 Appendix F
Verified aircraft operating facilities.

GRV 327 s/n: 837 22294

The aircraft and/or component identified hereon was repaired and inspected in accordance with current Federal Air Regulations and was found airworthy for return to service.

SIGNED *Michael G. Reel* DATE 6-5-17 W.O.#

June 21, 2017

N164JD

TACH 5425.4

TTAF 5141.1

An Annual Inspection was completed on this Cessna 180H, s/n 18051816, IAW Cessna Service Manual and FAR 43, Appendix D.

The following work was also accomplished:

- Installed Artex min ME40E, s/n 198-Q3648 ELT system in this aircraft and tested it according to applicable
- Aircraft and ELT manufacturer's instructions and applicable FAA guidance and found that it meets the requirements of FAR 91.207(g).
- ELT Main Battery replacement (455-0012).
- R&R Vacuum filters RA-09-18-1 and RA-B3-5-1
- R&R Engine Air Filter SA-8103-1
- Installed New Main ship Battery, s/n 40824500.
- Installed one piece Windshield (p/n WG-2073) IAW STC SA471GL, see 337 form
- Garmin Unit installed P/n 010-00412-40 s/n 97110899
- Installed NSD 360 HB P/n 52D136-1333 s/n 15051A, bought from Aircraft Quality Instruments, Inc
- Installed B A S, Inc. Shoulder Harness KII IAW STC SA3612NM
- AD
- 84-10-01R1 Fuel Bleedoff Cells & Quick drains **Compliance**
- 11-10-09 Seat Tracks & Seat Pin Engagement **CW by inspection**
- 78-07-12 Bendix Ignition Switch **CW by inspection**
- Installed new left fuel tank, bought from Eagle Tank. **Function check**
- Airworthiness Directives were checked through 2017-12 dated June 10, 2017.
- Operational checks found satisfactory.

Next Due June 2018.
Next Due Aug 2021.

Next Due
6/2018
6/2018
6/2018

This Cessna 180, s/n 180-52252, has been inspected IAW a 100 Hour Inspection and was determined to be in airworthy condition and is approved for return to service.

Signed *William Morgan*
 William Morgan IA 3494709 AP

AIR TIME AND

DATE	DAILY TOTAL		TOTAL AIR TIME SINCE MFG.		ENGINEERING RECORD
	HRS.	MIN.	HRS.	MIN.	
					NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE
BROUGHT FORWARD					
<i>Clw Bendix AD 7607-12</i>					Date <u>5-24-18</u> Total Time <u>5183.7</u> Prop Time <u>136.1</u> Tach <u>5468</u>
<i>No Defects noted</i>					AIRFRAME - Jacked aircraft, removed wheels, greased bearings and gear, checked brakes, checked retraction and emergency extension. Checked electrical system and battery. Checked all controls and oiled as needed. Removed all inspection plates and checked structure. Checked cockpit belts, lights and instrument operation. Functionally checked emergency locator transmitter per FAR 91.207 para. d due change 7-23.
<i>Clw AD 84-100121 No</i>					C/W AD <u>760712</u> By <u>JC</u> Next Due at <u>100hr</u>
<i>Defect noted. Clw AD</i>					C/W AD <u>84-100121</u> By <u>JC</u> Next Due at <u>annual</u>
<i>11-10-09 Sect 4 Railings</i>					C/W AD <u>961222</u> By <u>JC</u> Next Due at <u>Oil Change</u>
<i>No Defect noted. Inspected</i>					C/W AD <u>11-10-09</u> By <u>JC</u> Next Due at <u>100hr</u>
<i>Vertical Control Check ok</i>					
<i>Checked Calibration of oil</i>					
<i>PSI Evd. No Defect</i>					91.411 ALT <u>6-19</u> 91.413 XPDR <u>6-19</u>
<i>Clw SB-9 Rev. A</i>					Notes: Replace RH Fuel Bladder Leak good.
<i>Manifolds as Required</i>					Replace U.S. oil Valve. Replace L&R Exhaust
<i>Replace RH Cool Flap Hinge Pin</i>					Replace Rubber Mounts on Brake Power Supply.
<i>Replace Fuel Filter Parking Brake Return Spring Valve</i>					Replace Vertical Stabilizer fairings
<i>#4 Oil Primer line leak good</i>					Replace B Nut on
I CERTIFY THAT THIS AIRCRAFT ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A <u>Annual</u> INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION					The Aircraft, Airframe, Aircraft Engine, Propeller or Appliance identified herein was repaired and inspected in accordance with current FAR's and is approved for return to service. Pertinent details of the repair are on file at this Repair Station under W/O# <u>12156</u> Date <u>5-24-18</u> By <u>Wendy</u> Airways Aviation Center 2002 Airport Road, Grand Rapids, MN 55744 AWOR120N

Riegelman Aviation Co., LLC
"serving the Midwest"

Ph. (715) 686-7523
Cell (262) 994-6706

Mobile service to fit any schedule

FAA CRS # RN7R687Y

N# 1647A

ALTIMETER, STATIC AND TRANSPONDER CERTIFICATE

TEST ALT. ± 1000 FT.	-1	0	.5	1	1.5	2	3	4	5	6	8	10	12	14	15	16
TOL. ± FT.	20	20	20	20	25	30	30	35	40	40	50	50	60	60	80	110
ACTUAL	<u>10</u>	<u>10</u>	<u>10</u>	<u>10</u>	<u>10</u>	<u>10</u>	<u>10</u>	<u>10</u>	<u>10</u>	<u>10</u>	<u>10</u>	<u>10</u>	<u>10</u>	<u>10</u>	<u>10</u>	<u>10</u>
ERRATION																
TOL. ± 1000 FT.	18	20	22	25	30	35	40	45	50	BARO. SCALE ERROR (TOL. ± 25 FT.)						
TOL. ± FT.	120	100	140	155	180	205	230	255	280							
ACTUAL	<u>130</u>	<u>130</u>	<u>130</u>	<u>130</u>	<u>130</u>	<u>130</u>	<u>130</u>	<u>130</u>	<u>130</u>	<u>20</u> <u>20</u> <u>15</u> <u>10</u> <u>15</u>						
ERRATION																
HYSTERESIS (TOL. ± 75 FT.): MAX <u>130</u> 50% 40% <u>120</u> AFTER EFFECT (TOL. 30 FT.): OK CASE LEAK: OK																
ALTIMETER MAKE <u>CESSNA</u>				BLIND DISCOMPL. MAKE				TRANSPONDER MAKE								
MODEL <u>C661071-0101</u>				MODEL				MODEL								
S/N <u>16455</u>				S/N				S/N								

CERTIFIED ALTIMETER PER FAR 43, APP. E (b) TO 10,000 FT. TO COMPLY WITH FAR 91.411
 CERTIFIED STATIC SYSTEM PER FAR 43, APP. E (b) TO COMPLY WITH FAR 91.411
 CERTIFIED AUTOMATIC PRESSURE ALTITUDE REPORTING SYSTEM PER FAR 43, APP. E (c) TO COMPLY WITH FAR 91.411
 CERTIFIED TRANSPONDER PER FAR 43, APP. F TO COMPLY WITH FAR 91.413
 The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and found airworthy for return to service. Pertinent details are on file at this repair station under following work number.
 Date 2-2-18 Tach/Time 5520.4 W.O. 2379 Signed [Signature]

April 9, 2022

N164JD

TACH 5569.4

ATT 5285.1

An ANNUAL INSPECTION was completed on this Cessna 180H, s/n 18051816, I/A/W Cessna Service Manual and FAR 43, Appendix D. The following work was also accomplished;

- * Inspected the Artex m/n 345, p/n A3-06-2880 Rev. C, s/n 267-02549 ELT system in this aircraft according to applicable Aircraft and ELT manufacturer's instructions and applicable FAA guidance and found that it meets the requirements of FAR 91.207(d). Next Due April 2023.
- * ELT Main Battery replacement (A3-06-2893) Next Due July 2023.
- * ELT Remote Head Battery replacement Next Due Feb 2030.
- * AD Next Due
- 70-07-12 Bendix Ignition Switch 04/2023
- 84-10-01R1 Bladder Fuel Cells and Quick Drains 04/2023
- 87-20-03R2 Seat Tracks and Pin Engagement 100 hr or 4/23
- 98-12-22 Oil Filter Adapter oil change
- * Airworthiness Directives checked through 2022-08, April 8, 2022.
- * Operational checks found good
- * This Cessna 180H, s/n 18051816 has been inspected I/A/W an ANNUAL INSPECTION, was determined to be in airworthy condition and approved for return to service.

Signed William Morgan
William Morgan IA 3494709 AP



Airways Aviation Center, Inc.



N164JD

Date 6-8-22

Tach 5573.0

Installed Stone Stoi Kit STC SA2256WE with new wing strut cuffs.
Installed Kenmore Gross Weight STC SA649NW Kit K9858. Installed large vertical fin and large rudder. Doubler plate added to horizontal stabilizer spar. Installed Micro Aero Dynamic VG's in accordance with STC SA01646SE drawing package MA2208R1 dated 1-17-2006. Stripped, reprimed and painted LH and RH elevator, and stripped and repainted rudder. Performed Balance in accordance with Cessna MM after repaint. Complied with AD 20-21-22 Horizontal Stab Attach. No defects found.

The Aircraft, Airframe, Aircraft Engine, Propeller or Appliance identified herein was repaired and inspected in accordance with current FAR's and is approved for return to service. Pertinent details of the repair are on file at this Repair Station under W/O# 13141 Date 6-8-22

By [Signature] Airways Aviation Center
2002 Airport Road, Grand Rapids, MN 55744 AWOR120N

3-15-2024 Tach 5577.7

Installed STC SA 01386NY Fiberglass
Exhaust Fairy, SA 337 this date

[Signature] AWOR120N



N164JD Date 6-6-24 Total Time 5577.7 Prop Time 51.2 Tach 5377.7

AIRFRAME- Jacked aircraft, removed wheels, greased bearings and gear. Checked brakes, checked retraction and emergency extension. Checked electrical system and battery. Checked all controls and oiled as needed. Removed all inspection plates and checked structure. Checked cockpit belts, lights and instrument operation. Functionally checked emergency locator transmitter per FAR 91.207 para.d due change June 2030.

C/W AD 20-21-22 by Detjen. Next due at 5573.0.

C/W AD 16-16-12 by ECI. Next due at 6526.5.

CW A/D 76-07-12 Mag Switch. Next due at Annual.

CW A/D 20-21-02 by P/CW. Next due at 6073.3.

CW A/D 96-12-22 Oil Filter Adapt

CW A/D 87-20-03R2 Seat by Detjen. Next due/Annual.

91.411 ALT Due 91.413 XPDR Due

Installed Wipaire Model 3000 Floats IAW STC SA01320CH & installation instructions as listed on AML SA01320CH, or later FAA approved revisions. Installed Amphibian Landing Gear Position Advisory System/Laser Gear Advisory System in accordance with Wipaire, Inc. Master Drawing List W-MD151, Rev B dated July 29, 2015 and the drawing listed on AUL No SA39CH or later FAA approved revisions. Inspected previously installed Tru Trak Auto Pilot IAW STC SA04231CH, see 337 this date, reweighted aircraft for new weight & balance. Installed new battery, replaced RH & LH Wing Fuel Drains. Replaced Air Filter Element. Installed new Nav Light Switch. Transponder due calibration. Op checked Mag Switch per AD 76-07-12, ops check good.

C/W AD 11-01-09 Seat & Rail Inspection, found to be serviceable. Installed TruTrak Flight System Auto Pilot, see 337 this date.

I certify that this Aircraft has been inspected in accordance with an Annual Inspection and was determined to be in an airworthy condition. The Aircraft, Airframe, Aircraft Engine, Propeller or Appliance identified herein was repaired and inspected in accordance with current FAR's and is approved for return to service. Pertinent details of the repair are on file at this Repair Station under W/O# 13603 Date 6-6-2024

By Gley Terry Detjen Airways Aviation Center, 2002 Airport Rd, Grand Rapids, MN 55744 AWOR120N

ENGINE RECORD

1. Make Continental O-470-L.
2. Model O-470-L-C-K-C-R-C-S
3. Specification TC-E273.
4. Manufacturer's Serial Number SN 80832-0-L-4
5. Date of Manufacture ~~Overhaul~~ 4-22-2008
6. Aircraft Inspection Cycle 50 hr.

Engine Modified 4-22-2008 P. Pank STC SE-4985UM
Cops Modified P. Pank PW/O-4893-1 SN B178905-R.

ENGINE SERVICE AND

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, <small>NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE</small>
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD →			0	00	
22-Apr-2018					

4-22-2008 O-470-LC-KC-R-C-S S/N 80832-0-L-4 "O" SMOH

Engine disassembled, cleaned, and inspected at this time for Major Overhaul, and P. Ponk Conversion. All parts were Magnafluxed, Zyglod or visually inspected. Crankcase reworked by Crankcase Services Inc. repair station #H1HR0960. Crankshaft reworked by Rick Romans repair station #BE2R713K. Rods reworked by Aircraft Specialties Services repair station # DD2R764K. New Camshaft SA535661 S/N TH14015, starter drive bearing SA537721, bearing set SA537401-A3M10, rod bolts SA629340, rod nuts SA629109, rod bearings SA530983M10, crank seal SA641250, thru bolts AEC641931-10.75, lifters SA646277, & SA629488, Prestolite starter P/N MCL-6501, alternator DOFF10300J, piston pin AEC630046, six ECI cylinder assembly TICN71.2BCA S/N 43912-08, 43912-28, 36739-06, 36739-02, 36739-12, 36778-07 which includes valves, pistons and rings, matched piston weight of 1537 grams, gasket set SA536092-A10, mag bushings SA638172, Unison Ignition upgrade kit #K6320-32 which includes two Slick 6310 mags s/n 07031951, & 07031950, M-2381 harness, URH32E Autolite spark plugs, carburetor modified by P. Ponk Aviation P/N10-4893-1 S/N B178905-R. Engine was modified in accordance with P. Ponk STC SE4985NM dated March 22, 2001, and assembled in accordance with the manufacturer's parts and overhaul manuals and current regulations of the Federal Aviation Administration. **P. Ponk data plate must be installed by customer before engine is put into service.** Engine assembled using new gaskets and seals. Engine test run satisfactory. AD 85-08-02 N/A, AD 81-19-03 N/A, AD93-08-17 N/A, AD 93-10-02 N/A, AD 95-21-15 N/A, AD 95-12-04 N/A, AD 96-12-22 N/A, AD 97-21-02 N/A, AD 98-01-08 N/A, AD 98-17-11 N/A, AD 99-19-01 N/A, AD 00-23-21 N/A, AD 07-04-19 R1 N/A.
Frank J. Finley 2828485 A&P

N164JD	April 10, 2019	Tach time 5526.5	Aircraft total time 5242.2
TSMOH 0.0	Prop Time 0.0		

Removed and replaced engine, propeller and engine mount with Overhauled P Ponk engine conversion O-470-50, Serial number 2543 and McCauley D3A34C401-C/H-90EFA-4 Serial number 071502 propeller repaired by Maxwell Propeller Services in accordance with STC SA00468W1. Installed new Seaplanes West engine mount 400-1 serial number 1312 in accordance with SA02019NY. Installed overhauled prop governor C290D2K/T1 serial number 721091. Serviced with 11 quarts 20W50 Phillips Type M oil. Installed overhauled oil cooler part number 630050A serial number 04-66. Installed overhauled Marvel Shebler MA-4-5 carburetor part number 10-4893-1 serial number M505W01. Complied with AD96-12-22 oil filter adapter inspection, no defects noted. Verified AD10-11-04 hydraulic lifters is not applicable to this engine. **AD16-16-12 ECI cylinders is applicable to the cylinders installed. Remove cylinders before reaching 1000 hours time in service.** See parts list on above entry from Aero Engines. I certify that this engine has been inspected in accordance with an Annual Inspection and was determined to be in an airworthy condition. The aircraft engine identified herein was repaired and inspected in accordance with current FAR's and is approved for return to service. Pertinent details of the repair are on file at this Repair Station under Work Order #12386 dated 4-10-2019 by *CFR*
Airways Aviation Center, 2002 Airport Road, Grand Rapids, MN 55744 AWOR120N

TOTAL T				
TOTAL FROM PREVIOUS SUMMARY				
TOTAL SINCE MFG.				