

ENGINE RECORD

Manufacturer: **Pratt & Whitney**

Model: **R-1340-S3H1-G**

Serial No: **P-325878**

Type Certificate: **E-142**

This engine is currently installed in
aircraft: _____

Min. Octane Fuel: **80/87 Aviation *** Spark Plug Gap: **.015 - .018 in. ***

Oil Grade Summer: **120 wt.**

Winter: **100 wt.**

Magneto Time: **25° BTC**

Point Setting: **Bosch .008 - .010 in.**

Firing Order: **1-3-5-7-9-2-4-6-8** installed in aircraft: **Bendix N/A**

Recommended Overhaul at _____ Hours. *

Crankshaft Serial No.: **20BN-406**

Crankshaft Part No.: **375202**

Cam Serial No.: **0320 "NEW"**

Cam Part No.: **WA-11768**

* see Pratt & Whitney Maintenance Manual P/N 118611

NOTES

PAIR ENGINE MODEL: R-1340-S3H1G, S/N: P-325878
ORDER 5941, 26 SEP 2019

ENGINE SENT TO TAE FOR TEARDOWN AND INSPECTION. ASSEMBLED ENGINE AND FOUND CAM AND MAIN BEARING WAY OUT OF TOLERANCE #1 ROD STRETCHED AND BOTH MAIN BEARINGS PITTED BADLY. REPLACED ALL SMALL ROD BUSHINGS, #1 LINK ROD WAS FAIR TAKE EXHAUST VALVES. RECONDITIONED MASTER ROD BUSHING, SEVERAL REGROUND CAM ROLLERS, 9 EA NEW PINS, 7 EA MAIN BEARINGS, ROD BUSHINGS AS NEEDED. INSTALLED SERVICEABLE CYLINDER HEADS AND VALVES, RESET VALVES. REPAIRED HARNESSSES, REINSTALLED RAN ENGINE MAGNETOS AS NEEDED AND REINSTALLED. RAN ENGINE 2.0 HOURS AND ENGINE IS APPROVED TO RETURN TO

ROVING ENGINEERS, INC.
APPROVED REPAIR STATION NO. CT2R754K

& Order 5941

SERVICE BULLETINS

Fluorescent Ins. _____
 Imp. Balance _____
 Piston Pin Plug _____
 Radius M.R.B. *Complied*
 Not Pean P.R. _____
 ers _____
 It _____

 Threads _____
AD. NOTE
 Base Studs _____
 C/S _____
 Head *Complied*

Aircraft N8834H
 installed New Carburetor
 7320, Adjusted
 turned down Oil
 all turn, Verified

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACHOR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED - SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
4-9-22	10,130.8	2607.4	2935	
				I certifying this engine has been inspected IAW FAR 43 Appendix D scope and details of Annual/100hr inspection and all applicable maintenance manuals, and verified all applicable AD's, and find this engine to be in an Airworthy condition at this time.
				IA/AF [Redacted Signature]
				[Redacted Signature]
				4-9-22



Gardner Aircraft Service, LLC
332 Meadowview Drive
El Campo Texas 77437
979-635-0465

Make: Schweizer
Model: G164B
Tail: N8834H
S/N: 1B

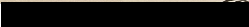
Hours: 2968.0 TACH/ 1551.7 TTIS/ 300.4 SMOH

Annual inspection completed this date. Removed all spark plugs. Cleaned, gapped, and tested all spark plugs. Compression leak down test 1) 76, 2) 78, 3) 74, 4) 77, 5) 80 6) 77, 7) 80 8) 73, 9) 76. Drained engine oil and removed spin on filter. Cut open oil filter and inspected for debris. None visible. Tested chip detector and checked valve adjustment. Set rocker arm oil filter and inspected for debris. None visible. Installed new oil and air filters. Repaired broken primer line on adjustment. Set carburetor. AD 93-11-02 (cylinder head cracking) complied with by inspection and due again at 3084 h TACH. All engine parts inspected and found satisfactory. AD 93-11-02 (cylinder head cracking) complied with by inspection and due again at 3084 h TACH. Airworthiness Directives complied with this date. See details in aircraft records. Test run engine satisfactory. I certify that this aircraft has been inspected in accordance with an annual inspection and determined to be in airworthy condition.

Signed:
Name:

Cert: A/P [REDACTED] IA
Date: 04/13/2023

06/25/2023 N8834H Tach 2982.0 R-1340-S3-H1-G sn P-325878
Removed Engine from N8834H due to metal in oil, prepped for shipping.

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED - SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
Date: April 16, 2024 Engine was repaired due to metal contamination resulting from blower bearing failure in accordance with Overhaul Manual P/N 123440 revised October 1979. Full details held on Work Order No. E2311926. The Maintenance described has been performed in accordance with the applicable standards of airworthiness. Engine sprayed internally with type II corrosion inhibitor.				
Model No.: R1340-S3H1G Serial No.: P-325878 TTN: 10,977.4 hrs; TSO: 314.4 hrs.			Authorized Signature  Aero Recip (Canada) Ltd. 510 Marjorie Street Winnipeg, Manitoba R3H 0S9 AMO 45-89 	

June 19, 2024	TACH TIME 3141.0	TOTAL TIME 10,977.4	TSMOH 314.4
INSTALLED THIS AIRCRAFT ENGINE ON AG-CAT G-164B N8834H, INSTALLED REPAIR Propeller 23D40, O/A 214115. REPAIR WORK DONE BY MAXWELL AIRCRAFT FAA Repair STATION # 0F2R211L UNDER W/O # 120096, Replaced all O-RING PLUGS, Replaced ALL FLEX HOSES, Adjusted Idle speed & Idle mix, Replaced oil Filter & installed AeroShell oil, Test Run engine & Propeller to Leaks, C/W AD 99-11-02 AT 7/19/99 by inspection of Cyl Heads Next Due AT TACH TIME 3241.0			
I CERTIFY THAT THIS AIRCRAFT ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION			
July 23 2024	Tach	3196.2	Drained oil, RTR Filter 5179245 Refilled with 8 gallons Phillips 66-25w60 oil. Removed oil sensor Inspected Tor noted no metal found — end —

[illegible]

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED - SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
7-1-85	7894.7	484.4	3311	C/L annual/low-hr inspection IAW FAR 43 App. D scope + detail perform compression test 1) 78/80 2) 75/80 3) 75/80 4) 78/80 5) 70/80 6) 75/80 7) 79/80 8) 76/80 9) 78/80. Inspected oil filter for contaminants none found at this time. C/W AD 99-4.0d by inspection of cylinder heads for cracks. No defects noted at this time. Next due at tach 3411. I certify the engine to be in an airworthy condition.
	16167.4			[Redacted Signature] 1A

AIRCRAFT DESCRIPTION

Manufacturer Grumman American Aviation Corp Place Cleveland Date 9-25-75
 License No. N8834H Type G-164B Serial No. 1B
 Description 1 PolB

Reconstructed By _____ Place _____ Date _____

Seating Capacity (Crew Included) One Weight Empty 3202.3# Weight Loaded 4500#

Wing Area 360.4 Sq. Ft. Control Area 67.5 Sq. Ft. Span 42'-2 3/4" Length 25'-7"

Tires Main (2) 8.50x10.00 Tire Tail 10.00 Type 2 Brakes Cleveland JN 30-67

Owner _____ Address _____

City _____ State _____

Propeller 7

Blade Design _____

Pitch 10

Engine 7

Rated H. _____

Receiver _____

Transmitter _____

Alternator _____

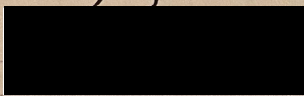
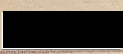
Starter _____

Power _____

EQUIPMENT DESCRIPTION

5-75-
Propeller *Hamilton Standard*
Efficiency Aircraft Hub Design *12P40/A6/100-2* Hub Serial No. *79120*
Blade Design *A6-100-2* Blade Serial No. *778110A* Blade Serial No. *778260*
Pitch *10° Low 16½ high* Width Diameter *126"*
Engine *Pratt & Whitney* Model *R1340-AN1* Serial No. *42-128714356*
Rated H. P. *600 @ 2250 RPM* Bore *5.75"* Stroke *5.75"*
Receiver Model Serial No.
7" Transmitter Model Serial No. Output
67 ALTERNATOR *DASCO* Model *7353-1* Serial No. *9938* Amp. *50* Volts *24*
Starter *BENDIX* Model *1416-21J* Serial No. *1512* Volts *24*
Power Unit Model Serial No. Volts

FLIGHT LOG

DATE	NATURE OF FLIGHT	No. of Pass.	TIME OF FLIGHT		TIME IN AIR		Miles Flown	REPAIRS — ADJUSTMENTS — REMARKS	SIGNATURE	LICENSE NUMBER
			Up	Down	Hours	Min.				
	 Gardner Aircraft Service, LLC 332 Meadowview Drive El Campo Texas 77437 979-635-0465							Make: Schweizer Model: G164B Tail: N8834H S/N: 1B		
	Hours: 2968.0 TACH/ 7551.7 TTIS									
	Annual inspection completed this date. Removed all access covers. Removed elevators, and rudder. Inspected, and lubricated pivot bearings. Reinstalled elevators, and rudder. Adjusted tension on trim cable. Adjusted trim bell crank cover to prevent rubbing. Inspected landing gear for torque and security. Installed both new main landing gear tires. Cleaned, inspected and packed all wheel bearings. Overhauled right master cylinder. Replaced missing screws in exhaust shroud. Reinforced propeller control cable at firewall. Installed new Gill sealed batteries (7025-20, S/N G03175689, and S/N G03175704). Installed new air filter and checked lighting. Checked all engine hoses, and controls. Installed new firewall fuel filter and serviced air conditioner. Lubricated and inspected all controls, pulleys, cables, bell cranks, and bearings. AD 78-23-11 (aileron cables) complied with by inspection and due again at 3568 TACH. AD 78-26-03 (wing fittings) complied with by inspection and due again at 10/13/2023. AD 82-13-06 (aileron cable attach holes) complied with by inspection and due again 04/30/2024. AD 89-18-02 (elevator torque tube) complied with by inspection and due again 04/30/2024. AD 11-05-07 (rudder spar) complied with by inspection and due again 04-13-2028. All Airworthiness Directives complied with this date. See details in aircraft records. I certify that this aircraft has been inspected in accordance with an annual inspection and determined to be in airworthy condition.									
	Signed: 				Cert: A/P  IA					
	Name: 				Date: 04/13/2023					
TOTALS FORWARD										
TOTALS TO DATE										

SIGNATURE
LICENSE
NUMBER

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REMARKS

DATE

INSPECTION — MAINTENANCE — REPAIRS — ALTERATIONS

June 19, 2024 TACH TIME 3141.0 TOTAL TIME 7724.7

Reinstalled ENGINE 21340-53116 S/N P-325878 After Repair by Aero-Rec-P

Reinstalled Propeller 23D40 S/N 214115 After AD inspection by Maxwell Aircraft

C/w AD 89-18-02 R1 eff 11/24/89 by visual inspection of Push-Pull Tubes next Due next Annual

C/w AD 82-13-06 eff 7/5/82 by inspection of Aileron Cable Attach next Due next Annual

C/w AD 78-26-03 eff 12/20/03 by inspection of Lower Spar Attach next Due 12/24,

C/w AD 75-14-04 eff 7/7/77 by inspection of Rudder cables next Due AT TACH TIME 3241.0

AD 78-23-11 R next Due AT TACH TIME 3568.0, AD 2011-05-07 next Due 4/13/28

checked Fuel System, Repacked wheel bearings, serviced Brakes, serviced Batteries,

Repaired THROTTLE control, Replaced Broken AC Hoses, & serviced AC system

Replaced Speed Rings Flex Mounts & Safety cables, Replaced Air Filter

I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED
IN ACCORDANCE WITH AN ANNUAL INSPECTION
AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION

Serial #1B N8834H

MSN:

FLIGHT LOG

DATE	NATURE OF FLIGHT	No. of Pass.	TIME OF FLIGHT		TIME IN AIR		Miles Flown	REPAIRS — ADJUSTMENTS — REMARKS	SIGNATURE	LICENSE NUMBER
			Up	Down	Hours	Min.				
2-1-25	3292.0		Tach Time, 7,875.7		Total Time					
			changed oil, replaced oil filter, retorted spark plugs							
3/15/25	3307		TACH		Removed L/R MLG Brake calipers.					
					Disassembled, cleaned, inspected assy's, installed new O-ring, replaced upper hydraulic fittings.					
					Replaced all brake linings. Reinstalled brake calipers.					
					Serviced brake system w/ 5606 Fluid. Leaks & ops checked.					
TOTALS FORWARD										
TOTALS TO DATE										

REMARKS

INSPECTION — MAINTENANCE — REPAIRS — ALTERATIONS

SIGNATURE
LICENSE
NUMBER

DATE

7-25 Ck Annual Inspection. Landed + Inspected all flight
 tach: 3311 control pivot point. Cleaned + lubed ML6 wheel bearings.
 TT: 8045.7 Inspected all flight control cables. Ck AD 89-18-02 R1
 Inspection of PWD + AFT elevator control system push-pull
 rod + end fittings. No defects noted at this time. Next
 due in 12 months. Ck AD 88-13-06 by inspection of
 aileron cable attach holes. No defects noted at this
 time. Next due in 12 months. Ck AD 78-26-03
 by inspection of lower wing attachment fittings for corrosion.
 No defects noted at this time. Next due in 6 months.
 Ck AD 75-14-04 R (2) by inspection of rudder
 cables at cockpit for frays. No defects noted
 at this time. See next page for remainder of
 sign off.

check OK

FLIGHT LOG

DATE	NATURE OF FLIGHT	No. of Pass.	TIME OF FLIGHT		TIME IN AIR		Miles Flown	REPAIRS — ADJUSTMENTS — REMARKS	SIGNATURE	LICENSE NUMBER
			Up	Down	Hours	Min.				
Serviced alt. Per format ops/leak check run no defects noted at this time. I certify this aircraft to be in an airworthy condition in reference to work performed above. [Redacted Signature]										
TOTALS FORWARD										
TOTALS TO DATE										

Aircraft Weight and Balance Revision

Tail Number: N8834H		Date: 6-19-2020	
Prepared by: MICHAEL AASEN		Work Order No: NA	
		Type Certificate Data No: NA	
Aircraft Make: GRUMMAN	Model: G-164B	Serial No: 1	Time: 2896.0
Registered Owner: SKYTRACTOR LLC.		Address: [REDACTED]	
Maximum Weight		CG Range FWD AFT	
As Received; Date of Previous Weight and Balance:	Useful Load:	EW: 4225	EWCG: 122.05 Moment: 515566.5
Notes: AC INSTALLATION			
	Weight	Arm	Moment
EVAPORATOR	8	212.3	1698.40
CONDENSER	8	234.3	1874.40
COMPRESSOR	11	56.3	619.30
	0.00	0.00	0.00
	0.00	0.00	0.00
	0.00	0.00	0.00
	0.00	0.00	0.00
	0.00	0.00	0.00
	0.00	0.00	0.00
	0.00	0.00	0.00
	0.00	0.00	0.00
	0.00	0.00	0.00
☒ As Calculated Moment 519758.60 ☐ As Weighed Weight 4252.00		New Empty Weight CG 122.24	New Useful Load -27.00
		Signature [REDACTED]	
		Repair Agency or License No: [REDACTED]	

Office DEPOT®



US Department
of Transportation
Federal Aviation
Administration

MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

Form Approved
OMB No. 2120-0020 11/30/2007

For FAA Use Only
Office Identification

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).

1. Aircraft	Make <i>Ag Cat</i>	Model <i>Super-B</i>
	Serial No. <i>811</i>	Nationality and Registration Mark <i>N8014Z</i>
2. Owner	Name (As shown on registration certificate) <i>Cropland Air Ser, Inc.</i>	Address (As shown on registration certificate) <i>[Redacted]</i>
	<i>Bellevue</i>	

3. For FAA Use Only

4. Unit Identification				5. Type	
Unit	Make	Model	Serial No.	Repair	Alteration
AIRFRAME	(As described in Item 1 above)				
POWERPLANT	Pratt & Whitney	R-1340-S3H1-G	P-325878		X
PROPELLER					
APPLIANCE	Type				
	Manufacturer				

AFTER INSTALLING THIS ENGINE,
PLEASE COMPLETE BLOCKS ONE
AND TWO OF THIS FORM (337)
AND FORWARD A COPY TO THE
F.A.A. FLIGHT STANDARDS OFFICE
IN YOUR AREA.

C. Certificate No.

A. Agency's Name and Address
Covington Aircraft Engines, Inc.
101 Airport Rd.

Sent to Spokane FAA
1-3-07

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

N8834H

03-30-2017

Nationality and Registration Mark

Date

Added standard 20 gallon wing tanks part number A5591-1 left wing tank, and A5591-2 right wing tank to accomodate long range fuel installation, which are type certificated for this aircraft. All work for this major repair/minor alteration is done IAW applicabe Ag Cat maintenance manual and drawings, and FAR 43.13 practical methods, all parts used, as specified by applicable Ag Cat parts manual. The work required moving wing ribs as speciied, by manual and applicable drawings. Also recovered all wing fabric, and tail surfaces. All work accomplished using pre approved Airtech Alteration STC # SA79655W. See previous applicable 337. Revised weight and balance to reflect change. A/C has been tested, and signed appropriately to operate at new gross weight under special flight restrictions. see log book for details.

----- END -----

R1340 ENGINE INSTALLATION

Enclosed is a data package which includes necessary information IAW AC43-210 For "Field Approval" evaluation. The alteration to be on aircraft N8834H, Serial # 1B, registered to Sky Tractor llc, of Hillsboro,ND. This installation has Been done many times prior, and I have included a previous 337 copy of the Same installation, done on the same make and model aircraft for reference. We are Seeking evaluation, and approval of the data package. If you find that we need More information to complete data package, please contact me at Sky Tractor LLC

Thank you,

IA/AP#

AVERY® M
PV119



Aircraft Model Grumman Ag Cat

Aircraft S/N 1 B

Engine Model R 1340-S3H-G S/N P-325878

Propeller Model 23D40 311

Blade Model 7005A-18

Hub Serial No. 214115

Blade Serial No. 1 _____

2 _____

3 _____

4 _____

LIMIT

Northwest Propeller Service
defects in workmanship and
for a period of: _____
every comes first.

Northwest Propeller Service
to repair any warranted
Propeller Service Overhaul

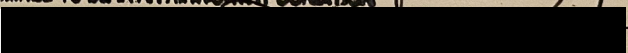
No field repairs are authorized
of seals will invalidate

In application for warranty
this product with any
verification of the inspection
item (i.e. copies of

Warranty will not be
with the part.

THIS WARRANTY DOES NOT COVER
CHARGES.

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	DESCRIPTION OF THE WORK PERFORMED
	HOURS	HOURS	
June 19, 2024	TACH	Time 3141.0	Re-installed this Propeller on AG-Cat N9834H Propeller
			I CERTIFY THAT THIS AIRCRAFT ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION. 
7/1/25	3311		✓ annual inspection AD's recommended none due at the time. I certify this prop. to be in an airworthy condition. 