required to be carried, and of the action taken to
technical log.

relating to the aircraft or any such equipment.

and modifications, all mandatory requirements

s, signature, authority and date. This signature
overs work which necessitates such a certificate.

Check 1, 2, 3 or 4) made in accordance with the
ch function was performed together with the total

ns 1, 2 and 3 the reference details, e.g. Bulletin
instructions, including those prescribed for the

'particulars' or 'paragraph 2 inspection only' an
ement

se has been achieved and no further action is

liance has been achieved, and further action is
if entries Column 7 headed 'Next Compliance
due

thority and date. The authority so to be held is as

Log Book No. 1

AIRCRAFT

Nationality and Registration Marks: RE-REGISTERED G-BWEA G-PENY ~~RHAS 5492~~

Constructor: J.G. PENY

Type: SOPWITH ~~[illegible]~~ LCAP TRIPLANE

Constructor's No. 1 of 1 1056

Date of Construction: 1958

ENGINE(S)

Type(s): Aeronautical O-320 B2B WARNER SCARAB

PROPELLER(S)

Type(s): SARTY R SINGLEY AT C ROLY 96" x 48"

OPERATOR

Name & Address: JOHN S. PENY, 1 STAND ST, ECKINGTON, SHEFFIELD.

Name & Address: JOHN HOCKEY, 8 BRENTLEY GARDENS, MANNAMEAD, PLYMOUTH, PL3 5DF

Name & Address: J.G. BARKER

Name & Address: TALL TREES, LUDDINGTON AN, VIRGINIA WATER, SURREY GU25 4DF

Date	No. of Flights	Flight Time		Total Since Manufacture		Engine Cycles	The work recorded below has been carried out in accordance with the Maintenance Order for this aircraft to service. Particulars of Maintenance and Other Work Carried Out on
1	2	3		4		5	6
		h	m	h	m		
Total b/f							
5/8/88	2	0	40	00	40		Boost Pump Test Flights.
22/[illegible]	1		30	1	10		Flight as fuel leak test.
18/11/89	3	1	50	5	00		Endurance flight of 1:15hrs
30/5/89	2	1	48	6	48		Pump Test Flights.
30/6/89	3	4	05	8	53		Leak Flight & Flight to Langham.
18/7/89	1	1	28	10	21		COMPASS - HORSLEY
26/7/89	1	1	44	12	06		HORSLEY - LYDD
27/7/89	2	3	00	15	06		LYDD - [illegible] - HORSLEY
28/7/89	2	2	15	17	21		HORSLEY - [illegible] - [illegible]
29/7/89	2	1	15	18	36		HORSLEY - [illegible] - DUXFORD
10/8/89	2	1	5	19	35		
11/8/89	1	0	15	19	50		
12/8/89	1	0	25	20	15		
25/8/89	1	1	0	21	15		
26/8/89	1	1	0	22	15		
31/8/89	1	0	40	22	55		
Total c/f	26	18	55	22	55		

Date	No. of Flights	Flight Time		Total Since Manufacture		Engine Cycles	The work recorded below has been carried out in accordance with the Airworthiness Order for the aircraft to service. Particulars of Maintenance and Other Work Carried Out in
1	2	3		4		5	6
		h	m	h	m		
Total B/F	33	27	10	22	20		FIRST FLIGHTS SINCE
3/7/97	2	1	40	23	00		"NEW ENGINE HAS STARTED"
5/7/97	2	2	55	25	55		CROSS BEACHE
6/7/97	2		50	23	45		
16/7/96	1		20	23	45		
25/7/96	1		25	23	30		
9/8/96	1		45	24	15		DUB 1010. TEST FLIGHT
26/10/96	2	1	40	25	55		
15/11/96	1		40	26	35		
11/12/96	1		45	27	20		
9/2/97	2	2	10	29	30		FIRST CROSS-COUNTRY
22/2/97	1		30	30	00		
2/3/97	1		30	30	30		UNDER CARRIAGE COLLAPSED ON LANDING
11/5/97	1		25	30	55		TEST FLIGHT
12/5/97	2	2	15	33	10		
13/5/97	2	1	35	34	45		
14/5/97	2	1	55	36	40		
Total c/f				36	40		

Total Difference
with Aircraft & Log

been carried out in accordance with

and Other Work Carried Out as

the requirements of the Air Navigation Order for the time being in force and in that respect the aircraft/equipment is considered fit for release

the Aircraft		Signature Authority Date
	The provisions of CAA Exemption EX/02/2003/PMR for aircraft type ..... registration G- ..... are hereby invoked. The revised certification requirements of BCAR A3-7 in respect of the certification of maintenance are adopted in lieu of the previous requirements for a Flight Release Certificate.	
	Signed (owner) ..... Name: ..... Dated:	

Log Book Entry
G-BWRA

A/c Type: Sopwith Tri-Plane *S/N:* PFA 021-10035
Engine Type: Warner Scarab 165 *S/N:* AC41-53783
Propeller Make: St Croix 94"x48" *S/N:* 3-09

Work Detail
Following in-flight aileron flutter incident the aircraft was dismantled and all wings stripped for inspection. All work carried out detailed in work pack Ref.No. **J0279/10/A**. All repair details held on file with LAA. Wings recover using Ceconite 102 and Randolph dope / paint scheme. Aircraft assembled and rigged I.A.W. SPM. Aircraft weighed and new W&B schedule raised Fuel flow checks and engine ground runs carried out.
Permit renewal inspection carried out for 2011 I.A.W. LAA Form LAA/FWR-1JUL2009 & **SPARs 15** @ 395.25 Hrs.
Flight test release issued by LAA

Permit Renewal 2011
Permit renewal inspection carried out for 2011 I.A.W. LAA form LAA/FWR-1JUL 2009 & ***SPARs 15***
@ 395.25 A/F Hrs.
Work detail contained in work pack Ref 35399 1/A

Permit Maintenance Release
The work recorded above has been completed to my satisfaction and in that respect the aircraft is considered fit for flight.

Signed: M.Anstey Auth Ref: **LAA 626** Date 7 July 11

Log Book Entry

Reg G-BWRA **Date 14-08-18**

Type	**Sopwith Triplane**	**S/N PFA2110035**
Engine	**Warner Scarab**	**S/N AC41-53783**
Propeller	**St Croix 94 x 48**	

Durring a pre flight inspection the port Cabane strut was found cracked at the upper attach fitting. The following work was carried out.

1. A/C de rigged and wings removed
2. Fuel tank removed and both Cabane struts removed.
3. New cabane struts manufactured to pattern in Spruce.
4. New Cabane struts installed and tank refitted
5. A/C reassembled and re rigged.
6. Air test Carried out

The work recorded above has been carried out to my satisfaction and in that respect the aircraft is considered fit for flight

Signed ..... Authority CAA Tel Date 14-8-18

Signature
Authority
Date

Following Rough Running Space + Low oil Pressure, No 3 Cylinder Removed Piston Low Compression. Found to valve Broad. Replaced Cylinder + Valve fitted (Valve Replacement Refers) Ground Runs Carried out Satisfactorily Carried out.

CARTY
QC 10-12

Hub tested SEVERAL CYCLES ABOVE

OUT TO FORST WORKSHOP SAT - 23/11/99

Date 2020 1	No. of Flights 2	Flight Time 3 h	Flight Time 3 m	Total Since Manufacture 4 h	Total Since Manufacture 4 m	Engine Cycles 5	Details of Maintenance and Other Work Carried Out 6
Total at				656	25		
8/1/20			50	657	15		
20/2/20	1		20	658	05		
2/9/20	1		20	658	25		
10/9/20	1	1	20	659	25		
15/10/20	1		20	659	45		
6/11/20	1		20	660	05		
9/11/20	1		20	660	25		
2021							
20/2/21	1		40	661	05		
23/2/21	1		40	661	45		
16/4/21	1		40	662	25		
28/5/21	1	1	00	663	25		
7/6/21	3	1	50	665	15		
8/6/21		1	25	666	40		
[illegible]							
Total at							

Log Book Entry

Reg **G-BWRA** **Date 10-03-2020**

Type	**Sopwith Triplane**	**S/N PFA2110035**
Engine	**Warner Scarab**	**S/N AC41-53783**
Propeller	**St Croix 94 x 48**	

Carry out Permit renewal inspection IAW LAA/FWR-1 July18 @ 657:15 Airframe hrs and 796:20 Engine hrs

The following work carried Out

1. Holly Carb removed and Stromberg installed
2. Firewall Box Removed and Rudder Pedals inspected
3. Compression Check Carried out, results recorded
4. Magnetos Lubricated
5. Rear Spark Plugs replaced
6. Elevator Hinges reamed and new pins fitted
7. Fabric on Tailplane and elevator
8. New Anti Chaffe disc's fitted to Cabane and LG wires
9. Worn out cowling screw holes plugged and new holes drilled
10. Port lower Cowling attachment bracket refitted with new Hardware
11. Wheels removed, fabric tidied up and repainted
12. Bungee cord removed and retightened
13. Wheels re greased and refitted
14. Vickers Gun removed, replacement Gun fitted
15. Prop tape removed, prop L/E cleaned up and new tape fitted
16. Light damage on rear of prop blended and re varnished
17. Ground runs and Carb set up carried out
18. Permit Airtest Carried out

The work recorded above has been carried out to my satisfaction and in that respect the aircraft is considered fit for flight

Signed ..... Authority L 09704 Date 20-07-2020

Log Book Entry

Reg **G-BWRA** **Date 10-03-2020**

Type	**Sopwith Triplane**	**S/N PFA2110035**
Engine	**Warner Scarab**	**S/N AC41-53783**
Propeller	**St Croix 94 x 48**	

Carry out Permit renewal inspection IAW LAA/FWR-1 July18 @ 657:15 Airframe hrs and 796:20 Engine hrs

The following work carried Out.

1. Holly Carb removed and Stromberg installed
2. Firewall Box Removed and Rudder Pedals inspected
3. Compression Check Carried out, results recorded
4. Magnetos Lubricated
5. Rear Spark Plugs replaced
6. Elevator Hinges reamed and new pins fitted
7. Fabric on Tailplane and elevator
8. New Anti Chaffe disc's fitted to Cabane and LG wires
9. Worn out cowling screw holes plugged and new holes drilled
10. Port lower Cowling attachment bracket refitted with new Hardware
11. Wheels removed, fabric tidied up and repainted
12. Bungee cord removed and retightened
13. Wheels re greased and refitted
14. Vickers Gun removed, replacement Gun fitted.
15. Prop tape removed, prop L/E cleaned up and new tape fitted.
16. Light damage on rear of prop blended and re varnished.
17. Ground runs and Carb set up carried out
18. Permit Airtest Carried out

The work recorded above has been carried out to my satisfaction and in that respect the aircraft is considered fit for flight.

Signed ..... Authority L0374 Date 20-07-2020

Date 2024	No. of Flights	Flight Time		Total Time Remaining		Engine Cycles	Nature of Maintenance and Other Work Carried Out
Carried				6668	249		
SEP 14	2	1	30	6669	14		
SEP 15	2	1	00	6669	14		
AUG 2	1		55	6680	09		
AUG 13	1		30	6710	30		
AUG 28	1		35	6711	05		
AUG 29	1		35	6711	40		
AUG 30	1		35	6742	15		
SEP 11	1		35	6742	40		
SEP 14	1		35	6775	05		
SEP 12	1		35	6776	05		
SEP 13	1		30	6776	40		
SEP 14	1		40	6775	05		
SEP 20	1		15	6775	55		
SEP 19	1		40	6775	05		
SEP 9	1		30	6776	05		
Total							

Aircraft Parked [illegible]
02 OCT 2021 @ [illegible]
-1 Prop 20 m [illegible]
Water on [illegible]

Pilot [illegible]

Signature
Authority
Date

Arrived Renwall commenced work on
02.08.2021 @ 0697 10 Hrs INW LNG/PRO
1 Auf 2019 RWD TADS 000 on Pelmet,
Held on Site.

ref from the
00 of 20

Full Reset

PARTS [illegible] 343
Ser. No. [illegible]
Order No. [illegible]

This Engine purchased without any Records or History was offered to me for inspection with a view of installing same in Peter D.I. Tri-Plane G-[illegible] G-BLIPR

The following checks were carried out:-

1. Cylinders and Pistons removed to gain access to Crankshaft and Connecting Rod assembly.
2. Crack Check carried out on external of Master and Articulated Con Rods using Penetrant Dye (where possible) and Magnifying Glass methods. Big End Bearing checked by feel. Gudgeon Pins checked in little ends.
3. Crankshaft End Float checked.
4. D.T.I. check on Prop Shaft.
5. Cam Drum and associated Valve gear checked for wear.
6. Micrometer check on Cylinder Barrels and Pistons.
7. Valve Timing and Tappett clearances checked.
8. Valve Springs checked in situ.
9. Ignition Timing checked.
10. Magnetos then removed and sent for overhaul. (Returned satisfactory)
11. Magnetos refitted.
12. New Spark Plugs fitted.

When exposed the Interior of the Engine was found remarkably clean, all steel parts being free from corrosion and coated with grease. The Cylinder Heads and Valve Heads were polished and protected. New Piston Rings had been fitted, the Black Protective Treatment was still intact.

I am of the opinion that this engine had been overhauled and not run.

Ground Run carried out:-

Max. R.P.M.	1,950
Slow Run R.P.M.	700
Oil pressure	75 p.s.i.
Mag Drop	25/25
Dead Mag. Check	Satis.

Oil Filters Checked after run.

After Installation and a successful Test Flight I am prepared to clear this Engine "Fit for Flight".

Signed.....K. Foster.

P.F.A. Insp. No. 61901.

Dated.....10. NOV. 80.

ENGINE

Log Book No. ONE

Type: SCARAB 165 Manufacturer: WARNER. U.S.A.

Constructor's No: AC 41 - 53785 Date of Construction:

NATIONALITY & REGISTRATION MARKS OF AIRCRAFT

1 G-BEFR 5 9

2 G-OWEA 6 10

3 7 11

4 8 12

OPERATOR

Name & Address: [illegible]

Name & Address: [illegible]

Name & Address:

Name & Address:

6

Date	Time Run Since Complete Overhaul		Time Run Since Top Overhaul		Cycles Run Since New or Complete Overhaul	Particulars of Maintenance and Other Work
	h	m	h	m		
Total M	00	00	00	00		
13.6.86		35				
22.6.86	1	05				
28.6.86	1	15				
25.6.86	2	50				
4.7.86	3	00				
12.7.86	3	50				
13.7.86	5	45				
18.7.86	6	25				
19.7.86	7	45				
20.7.86	8	45				
21.7.86	9	10				
22.7.86	10	35				
23.7.86	10	25				
27.7.86	11	30				
Total M	11	30				

POPULAR FLYING ASSOCIATION

Validation Statement

1. This engine is not certificated to international requirement.

2. To assure airworthiness this engine is to be maintained to the under requirements or to approved Popular Association procedures.

PFA Engine Ref. PFA/SC2

Signed

Date 23 May 86

CAA Approval No. DA/1111

Date engine rec'd, Remove, clean, etc

Date	Total Run Since New or Complete Overhaul 2		Total Run Since Top Overhaul 3		Cycles Run Since New or Complete Overhaul 4	Particulars of Maintenance and Other Work Carried Out 5
1	h	m	h	m		
Total ⊕	236	00				
6.4.22	236	10				
7.6.22	233	55				
	239	55				

Date Begun

Signature Authority Date

NDIS NON-DESTRUCTIVE INSPECTION SERVICES LTD.

UNIT 15, CROMPTON MILL INDUSTRIAL ESTATE, HUDDERSFIELD ROAD, OLDHAM, OL9 7JT. TEL: (0161) 678122 & 762777 FAX: (0161) 708671

MAGNETIC PARTICLE		TEST REPORT		Page 1 of 1
Customer: John Hobbs, 4 Crantock Gardens, Mannamead, Plymouth, PL3 5BP		Order No: Verbal	NDIS Job No: 990323	Report No: 1808/99/01799
		Date of Receipt: 28 June 1999	Date of Test: 29 June 1999	Procedure Details: NDIS/GEN/MAG
		Aircraft Type: Squawk Trigular	Serial Reg. No: G-BRRA	Aircraft Hours/Landings: Not Known
Component: Water Scrub		Serial No: Not known	Part No: AC41-51785	Reason for Test: Suspect Damage
Surface: Machined		Preparation: Degrease/De-mag	Task No: N/A	Rejection: N/A
Magnetising Apparatus	Serial No.	Method	Current	Connecting Wire No: 14 SIF
PEL 181 Bench	186/2142	A/R	A/R	Contrast Aid: N/A
				Flux Indicator: Castrol Type II
				Ultra-Violet Light: Bly 370
				Batch No: 9307028
				Batch No: N/A
				Fluid Indicator: Magnaforcher
				Heating Method: Coil

Details of Test: Halcrowcast Magnetic Particle examination carried out in accordance with the above procedure on the following engine components:

Description	Part Number	Qty
Crankshaft	7834	1
Crankshaft Extension	7805	1
Pin Crankshaft Coupling	7101	1
Bolt - Crankshaft Counterweight	7128	4
Bolt - Crankshaft Counterweight Drilled	7135	2
Connecting Rod - Master	8080	3
Bolt - Master Rod	7235	4
Link Rod	8084	6
Strut Pin	7054	6
Link Rod Bolt	7072 - B	6
Piston Pin Assembly	8003	7
Gear With Sunscrew	7838	1
Gear Magneto Drive	7860	2
Gear Cam Drive Idler	7857	1
Gear Generator Drive	7859	1
Gear Oil Pump Drive	7863	1
Gear Oil Pump Drive Idler	7862	1
Gear Accessory Drive	7861	1
Gear Crankshaft	7864	1
Cam Ring	7813	1
Prop Bolt	AN6-30	8
Prop Flange	N/A	1

There were no apparent fault indications.

Certified that the above mentioned aircraft components have been satisfactorily tested in accordance with the terms of the contract under which they were accepted. This certificate does not relate to the condition or quality of components of the Civil Aviation Authority relating to the testing of such aircraft components. The certificate does not relate to the condition or quality of manufacture of the components or to any fault specified in the test order under which

NDIS LTD.

Name of Tester	Signature of Tester	Approved by	Date of Report	Approval No.	Company Stamp
E BUCKLER	EB JC		7 June 1999	A/99/1192	QUALITY INSPECTED

Our standard terms and conditions apply

1 United Kingdom Civil Aviation Authority	UK CAA APPROVED CERTIFICATE	2 Form Tracking No. 23/156

4 Approved Organisation Name and Address	5 Work Order/Contract/Invoice
VINTAGE ENGINE TECHNOLOGY LIMITED FULLERS HILL, LITTLE GRANSDEN AIRFIELD, SANDY, BEDS, SG19 3BP, ENGLAND Telephone: +44 (0)1767 651794 Email: mail@vintech.aero	17 1 2642

6 Item	7 Description	8 Part No	9 Qty	10 Serial No	11 Status/Work
1	Cylinder assemblies including pistons and piston pins	7828	7	N/A	Repaired

12 Remarks

Details of work held on our Project Ref 17 1 2642
Manual Ref. Warner Scarab Handbook, First Edition September 1946
Cylinders honed to clean, fit replacement exhaust guides as necessary, cut all seats, renew exhaust studs as necessary and gap rings to cylinders.

13a Certifies that the items identified above were manufactured in conformity to: ☐ Approved design data and are in a condition for safe operation ☐ non-approved design data specified in block 12		14a Certifies that the work specified, except as otherwise specified in box 12, was carried out in accordance with the Air Navigation Order for the time being in force and in respect to that work the aircraft/aircraft component is considered ready for release to service.	
13b Authorised signature	13c Approved No	14b Authorised signature	14c Approval No. AO/5446/11
13d Name	13e Date (dd/mm/yyyy)	14d Name Paul Sharman	14e Date (dd/mm/yyyy) 8th February 2017

USER/INSTALLER RESPONSIBILITIES

1. This certificate does not automatically constitute authority to install the item(s).
2. Where the user/installer performs work in accordance with the regulations of another airworthiness authority, it is essential that the user/installer ensure that his/her airworthiness authority accepts items from the UK CAA.
3. Statements 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer, before the aircraft may be flown.

CARRIED OUT TO RAM LAB/FWR-1 SAT. GOLDSTACK LAA MO

ALL SEVEN CYLINDERS REMOVED — ROUTED TO VINTEC FOR SERVICEABILITY CHECK. ALL WORK NECESSARY CARRIED OUT. VINTEC PROJECT Nº 17-1-2642 REFERS. FULL G/RUN CARRIED OUT - 1800 RPM ON CHOCKS - SAT.

GOLDSTACK LAA MO 25-3-2017

VINTAGE ENGINE TECHNOLOGY LIMITED

LOG BOOK CERTIFICATE AND RELEASE TO SERVICE

Certificate No. 1727
Page 1 of 2

Engine/Component:- Warner Scarab
Cylinder assembly. P/N 7828, S/N N/A (position No. 6)
The following work carried out:-
- Cylinder honed.
- Customer supplied exhaust valve P/N 7848 fitted.
- Cut and lap seats and valves.
- Reface valves.
- Replacement piston P/N 8049 fitted.
- Replacement rings P/Nos. 7744, 8513 and 8632 gapped to cylinder.
- No further work carried out.

Cont.....

APPROVAL BCAR M-2[illegible]
Fullers Rd, LITTLE GRANSDEN SABRIDGE, Kents, Beds, [illegible] England
Telephone: [illegible] ... Overseas: + 44 [illegible] ... Email: [illegible]

VINTAGE ENGINE TECHNOLOGY LIMITED

REBUILDERS OF VINTAGE AND OUT-OF-PRODUCTION AERO ENGINES

LOG BOOK CERTIFICATE AND RELEASE TO SERVICE

Certificate No. 1777
Page 2 of 2

Notes

- Manual Ref. Warner Engine Handbook, Super Scarab SS-50 and Super Scarab SS-50A, First Edition August 1945.
- Details of work held on Project File Ref. 18 9 2841

The work recorded above has been carried out in accordance with the requirements of the Air Navigation Order for the time being in force and in that respect the aircraft/equipment is considered fit for Release to Service.

Signature:-

Date:- 3rd October 2018

APPROVAL BCAR A8-23(M)
GRANSDEN AIRFIELD, Sandy, Beds, SG19 3BP, England.
Tel: + 44 1767 651794 Email: mail@vetock.aero

Date 2018 1	Time Run Since New or Complete Overhaul 2		Total Run Since Last Overhaul 3		Cycles Run Since New or Complete Overhaul 4	Particulars of Maintenance and Other Work Carried Out 5
	h	m	h	m		
Total at	760	55	71	15		
1·9·18	761	40	72	00		
1·9·18	762	40	73	00		
2·9·18	764	00	74	20		
9·9·18	765	05	75	05		
8·9·18	766	00	76	25		
9·9·18	767	05	77	25		
9·10·18	767	25	77	45		
26·10·18	767	45	78	05		
27·10·18	768	45	79	05		
28·10·18	769	35	79	55		
11·11·18	770	05	80	25		
17·11·18	770	50	81	10		
19·11·18	771	35	81	55		
18·11·18	772	30	82	50		ANNUAL 100 HOUR INSP
Total at	772	30	82	50		

9

Date	Time Run Since New or Complete Overhaul		Time Run Since Top Overhaul		Cycles Run Since New or Complete Overhaul	Particulars of Maintenance and Other Work Carried Out
	h	m	h	m		
Total at	795	30	105	50		
8/1/24	796	20	106	40		
2nd/1/24	797	10	107	30		
8/4/24	797	30	107	50		
10/4/24	799	30	109	50		
11/10/24	799	50	109	10		
4/11/24	799	10	109	30		
7/11/24	799	30	109	50		
Total at						

Reg G-BWRA

Type Superl
Engine Warne
Propeller St Cro

Carry out Permit rem
ion and 796.20 Engi

The following work
1 Static Cylin

Log Book Entry

Ship: [illegible] Date: [illegible]

Crew: [illegible] [illegible]
Weather: [illegible] [illegible]
Destination: [illegible]

[illegible]

The following work completed:

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]
5. [illegible]
6. [illegible]
7. [illegible]
8. [illegible]
9. [illegible]
10. [illegible]
11. [illegible]
12. [illegible]
13. [illegible]