

N225 ML

ENGINE LOG
EF5-1

The subject aircraft was involved in an incident / accident on 8/8/2024 rendering it a Constructive Total Loss as not repairable within its insured value. For further details refer to insurance claim: 1572918323US.

Signed: ***Underwriters Salvage Company***

Date: **3/27/2025**

ALG Aerospace Adjustment Services Inc
3500 Lenox Road, Suite 1100

INSPECTION & MAINTENANCE RECORD

DATE

TOTAL
TIME

INSPECTION OR MAINTENANCE PERFORMED
AGENCY & CERTIFICATE NO

ENGINE LOG

LYCOMING O-540F1B5 S/N L-26776-40E

Date 06-15-2024 Hobbs/TT 1763.0

Serviced engine with eight quarts Aeroshell W100 plus engine oil. Removed oil filter and screen and inspected for metal (none found). Installed new AA48108-2 oil filter and reinstalled oil screen with new gasket. Performed compression checks per SI 1191A #1 76/80 #2 76/80 #3 70/80 #4 76/80 #5 76/80 #6 72/80. Complied with SB388C #1 .024 #2 .028 #3 .028 #4 reamed to .018 #5 .026 #6 .024. Installed new RG-75906-SP rocker cover gaskets. Installed new 3080-38 cylinder head temp probe and new SL71973 intake gasket on #2 cylinder. Complied with SB 1129D by inspection of alternator belt tension. Checked all controls for full travel. Cleaned and rotated all spark plugs. Checked engine to magneto timing (no adjustments needed). Cleaned engine, ran engine and checked for leaks and proper mag drops.

Signed D. Van Donselaar Danny Van Donselaar A/P2769760I/A

ENGINE LOG

LYCOMING O-540F1B5 S/N L-26776-40E

Date 06-15-2024 Hobbs/TT 1763.0

I certify that this engine has been inspected in accordance with a 100-hour inspection and was determined to be in airworthy condition.

Signed D. Van Donselaar Danny Van Donselaar A/P 2769760I/A

INSPECTION & MAINTENANCE RECORD

TOTAL

INSPECTION OR MAINTENANCE PERFORMED

ENGINE LOG

LYCOMING O-540F1B5

S/N I.-26776-40E

Date 09-07-2023

Hobbs/TT 1730.4

Serviced engine with eight quarts Aeroshell W100 plus engine oil. Removed oil filter and screen and inspected for metal (none found). Installed new AA48108-2 oil filter and reinstalled oil screen with new gasket. Performed compression checks per SI 1191A #1 76/80 #2 70/80 #3 74/80 #4 70/80 #5 70/80 #6 70/80. Removed magnetos and installed 500 hour inspected serviceable magnetos P/N BL-60016-3 S/N E22BAD95R and P/N BL-601646-201 S/N EO7FA189 (see yellow tags from Aircraft magneto service dated Sept 7, 2023) with new gaskets and magneto cushions. Complied with SB 1129D by inspection of alternator belt tension. Checked all controls for full travel and lubricate. Cleaned and rotated all spark plugs. Cleaned engine, ran engine and checked for leaks and proper mag drops.

Signed 

Danny Van Donselaar A/P27697601/A

Knoxville Aviation

1545 Hwy 14 South Knoxville

IA

50138

ENGINE LOG

LYCOMING O-540F1B5

S/N I.-26776-40E

Date 09-07-2023

Hobbs/TT 1730.4

I certify that this engine has been inspected in accordance with a 100-hour inspection and was determined to be in airworthy condition.

Signed 

Danny Van Donselaar A/P 27697601/A

Knoxville Aviation

1545 Hwy 14 South Knoxville

IA

50138

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
------	------------	---

ENGINE LOG

LYCOMING O-540F1B5 S/N L-26776-40E
Date 05-01-2023 Hobbs/TT 1571.6

Serviced engine with eight quarts Aeroshell W100 plus engine oil. Removed oil filter and screen and inspected for metal (none found). Installed new AA48108-2 oil filter and reinstalled oil screen with new gasket. Performed compression checks per SI 1191A #1 70/80 #2 76/80 #3 72/80 #4 68/80 #5 70/80 #6 78/80. Complied with SB 388C by exhaust valve wobble check #1 .025 #2 .028 #3 .023 #4 .028 #5 .022 #6 .021. Complied with SB 1129D by inspection of alternator belt tension. Checked all controls for full travel and lubricate. Cleaned and rotated all spark plugs. Cleaned engine, ran engine, and checked for leaks and proper mag drops.

Signed D. Van Donselaar
Danny Van Donselaar A/P27697601/A
Knoxville Aviation 1545 Hwy 14 South Knoxville IA 50138

ENGINE LOG

LYCOMING O-540F1B5 S/N L-26776-40E
Date 05-01-2023 Hobbs/TT 1571.6

I certify that this engine has been inspected in accordance with a 100-hour inspection and was determined to be in airworthy condition.

Signed D. Van Donselaar
Danny Van Donselaar A/P 27697601/A
Knoxville Aviation 1545 Hwy 14 South Knoxville IA 50138

INSPECTION & MAINTENANCE RECORD

ENGINE LOG

LYCOMING O-540F1B5 S/N L-26776-40E

Date 07-29-2023 Hobbs/TT 1674.0

Serviced engine with eight quarts Aeroshell W100 plus engine oil. Removed oil filter and screen and inspected for metal (none found). Installed new AA48108-2 oil filter and reinstalled oil screen with new gasket. Performed compression checks per SI 1191A #1 78/80 #2 78/80 #3 74/80 #4 replaced #5 76/80 #6 78/80. Removed and installed overhauled cylinder on #4 with new gaskets per Lycoming overhaul manual (see 8130-3 form dated 29-Aug-2022 from Central Cylinder Service Inc.). Checked magneto to engine timing (no adjustment needed). Complied with SB 1129D by inspection of alternator belt tension. Checked all controls for full travel and lubricate. Cleaned and rotated all spark plugs. Cleaned engine, ran engine and checked for leaks and proper mag drops.

Signed D. Van Donselaar
Danny Van Donselaar A/P27697601/A
Knoxville Aviation 1545 Hwy 14 South Knoxville IA 50138

ENGINE LOG

LYCOMING O-540F1B5 S/N L-26776-40E

Date 07-29-2023 Hobbs/TT 1674.0

I certify that this engine has been inspected in accordance with a 100-hour inspection and was determined to be in airworthy condition.

Signed D. Van Donselaar
Danny Van Donselaar A/P 27697601/A
Knoxville Aviation 1545 Hwy 14 South Knoxville IA 50138

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
------	------------	---

ENGINE LOG

LYCOMING O-540F1B5 S/N L-26776-40E
Date 07-28-2022 Hobbs/TT 1378.0

Serviced engine with eight quarts Aeroshell W100 plus engine oil. Removed oil filter and screen and inspected for metal (none found). Installed new AA48108-2 oil filter and reinstalled oil screen with new gasket. Performed compression checks per SI 1191A #1 74/80 #2 76/80 #3 74/80 #4 72/80 #5 70/80 #6 72/80. Complied with SB 1129D by inspection of alternator belt tension. Checked all controls for full travel and lubricate. Cleaned and rotated all spark plugs. Cleaned engine, ran engine and checked for leaks and proper mag drops.
Signed D.V.D. Danny Van Donselaar A/P 27697601/A
Knoxville Aviation 1545 Hwy 14 South Knoxville IA 50138

ENGINE LOG

LYCOMING O-540F1B5 S/N L-26776-40E
Date 07-28-2022 Hobbs/TT 1378.0

I certify that this engine has been inspected in accordance with a 100 hour inspection and was determined to be in airworthy condition.
Signed D.V.D. Danny Van Donselaar A/P 27697601/A
Knoxville Aviation 1545 Hwy 14 South Knoxville IA 50138

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
------	------------	---

ROBINSON R44I N225ML S/N 0942
Date 07-03-2022 Hobbs/TT 1333.5

Removed serviceable lower vertical fin and skid tube and installed new C043-1.CS lower vertical fin, C470-1 tail skid tube, and two new C652-2 Danger decals.
Signed D.V.D. Danny Van Donselaar A/P 27697601/A
Knoxville Aviation 1545 Hwy 14 South Knoxville IA 50138

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
------	------------	---

ENGINE LOG

LYCOMING O-540F1B5 S/N L-26776-40E

Date 04-07-2022 Hobbs/TT 1251.4

Serviced engine with eight quarts Aeroshell W100 plus engine oil. Removed oil filter and screen and inspected for metal (none found). Installed new AA48108-2 oil filter and reinstalled oil screen with new gasket. Performed compression checks per SI 1191A #1 76/80 #2 70/80 #3 66/80 #4 66/80 #5 68/80 #6 68/80 (cold). Complied with SB 1129D by inspection of alternator belt tension. Checked all controls for full travel and lubricate. Cleaned and rotated all spark plugs. Checked magneto to engine timing (no adjustment needed). Cleaned engine, ran engine and checked for leaks and proper mag drops.

Signed *D. J. Van Donselaar* Danny Van Donselaar A/P27697601/A
Knoxville Aviation 1545 Hwy 14 South Knoxville IA 50138

ENGINE LOG

LYCOMING O-540F1B5 S/N L-26776-40E

Date 04-07-2022 Hobbs/TT 1251.4

I certify that this engine has been inspected in accordance with a 100 hour inspection and was determined to be in airworthy condition.

Signed *D. J. Van Donselaar* Danny Van Donselaar A/P 27697601/A
Knoxville Aviation 1545 Hwy 14 South Knoxville IA 50138

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
------	------------	---

A & S HELICOPTERS, INC.
3300 VECTOR DRIVE
CAHOKIA, IL 62206

N225ML SER. NO. 1810 ROBINSON R44 RAVEN T.T. 1152.6
 HOUR METER 1152.6 ENGINE SER. NO. L-26776-40E T.T. 1152.6

Completed a 100 Hour inspection IAW Appendix D of part 43 and portions of Lycoming checklist. Compression #1-72/80, #2-70/80, #3-72/80, #4-70/80, #5-70/80, #6-78/80. Spark plugs cleaned and gapped. Oil and filter changed. Serviced with Phillips X Country 20W50.

The Engine identified above was repaired and or inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service with respect to work performed. Pertinent details are on file at this Repair Station under Work Order No: 784 Date 06/12/2020 Signed: *[Signature]*
 for A & S Helicopters, Inc. Repair Station No. SI2R162L

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
------	------------	---

ENGINE LOG

LYCOMING O-540F1B5 S/N L-26776-40E

Date 07-01-2020 ^{PVD} Hobbs/TT 1161.7

Serviced engine with eight quarts Aeroshell W100 plus engine oil. Removed oil filter and screen and inspected for metal (none found). Installed new AA48108-2 oil filter and reinstalled oil screen with new gasket. Performed compression checks per SI 1191A #1 72/80 #2 76/80 #3 76/80 #4 70/80 #5 78/80 #6 76/80. Complied with SB388C by wobble check on exhaust valves #1 .022 #2 .021 #3 .026 #4 .028 #5 .021 #6 .021. Complied with SB 1129D by inspection of alternator belt tension. Checked all controls for full travel and lubricate. Cleaned and rotated all spark plugs. Removed magnetos and installed overhauled magnetos P/N 10-600646-201 S/N E14AA242 and P/N 10-600616-3 S/N E14AA263. Installed new intake gaskets and tubes. Cleaned engine, ran engine and checked for leaks and proper mag drops.

Signed *[Signature]* Danny Van Donselaar A/P27697601/A
 Knoxville Aviation 1545 Hwy 14 South Knoxville IA 50138

ENGINE LOG

LYCOMING O-540F1B5 S/N L-26776-40E

Date 07-01-2020 ^{PVD} Hobbs/TT 1161.7

I certify that this engine has been inspected in accordance with a 100 hour inspection and was determined to be in airworthy condition.

Signed *[Signature]* Danny Van Donselaar A/P 27697601/A
 Knoxville Aviation 1545 Hwy 14 South Knoxville IA 50138

INSPECTION & MAINTENANCE RECORD

DATE

NEW RECIPROCATING ENGINE CERTIFICATE

This is to certify that the engine as described hereinafter has been manufactured run-in and tested as prescribed by **LYCOMING** specifications and Federal Aviation Regulations. No further run-in is required. All applicable Federal Aviation Airworthiness Directives and Lycoming Service Bulletins have been complied with at time of Manufacture.

MODEL O-540-F1B5

SERIAL NO. L-26776-40E

DATE AUG 17 2007

[Signature]
(AUTHORIZED REPRESENTATIVE)

LYCOMING
A Textron Company

LYCOMING ENGINES
652 Oliver Street
Williamsport, PA 17701 U.S.A.

Form No. 777-B (Rev. 3/03)

All Service Bulletins complied with through SB # 62 as applicable.

All ADs complied with through biweekly Issue # 2007-24 during production.

Authorized Signature *[Signature]*

ENGINE DESCRIPTION

MANUFACTURER LYCOMING MODEL 0-540-F1B5

SERIAL NUMBER L-26776-40E DATE OF MANUFACTURE 8-17-2007

RATED BHP _____ RPM _____ MANIFOLD PRESSURE _____

FUEL REQUIRED OCTANE/PERFORMANCE _____

REGISTERED OWNER _____

STREET NO. _____

CITY, STATE, ZIP _____

REGISTERED OWNER _____

STREET NO. _____

CITY, STATE, ZIP _____

CA 2158

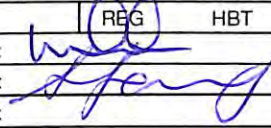











**CIVIL AVIATION AUTHORITY
OF NEW ZEALAND**

ENGINE LOGBOOK


Central Aero Engineering Ltd

Miscellaneous Work Sheet & Loose Leaf Log Entry - CAE 2 rev 1

DATE	TYPE	R44	REG	HBT	HRS	1019.3	JOB #	3656	SHEETS	2 of 2
ENGINEER NAME	P. Waterhouse	SIGN :			INITIALS :			AMEL #	21299	
ENGINEER NAME	S.M. Grainger	SIGN :			INITIALS :			AMEL #	24612	
ENGINEER NAME	K. Sami	SIGN :			INITIALS :			AMEL #	24894	
ENGINEER NAME	H. Ross	SIGN :			INITIALS :			AMEL #		

ITEM #	WORK REQUIRED	WORK CARRIED OUT	INITIALS
9	Lycoming SI 1191A Cylinder compression Inspection due :	Inspection carried out - Refer Item 2 this job.	
10	Lycoming SI 1080C Maint items for special attention :	Inspection carried out IAW Lycoming SI 1080C - NIL Faults.	
11	100 Hr / 12 Month ELT test / inspection due :	ELT test carried out IAW Rule Part 43 Appendix F and Kannad Installation & Maintenance manual. Self test carried out - NIL faults found.	
12	DCA / R44 / 32A MRB bonding inspection due :	Inspection carried out IAW AD instructions - NIL faults found.	
13	DCA / R44 / 27A Cabin door hinge security inspection due :	Inspection carried out IAW AD instructions - 1 x Cotter Ring missing L/H Rear door - Replaced - PN B427-1, RN SH047275.	
14	Air Filter replacement 100 Hr due :	Air Filter replaced with PN 42097, RN 17329.	
15	Engine Oil Filter change 100 Hr due :	Oil Filter replaced with PN AA48108-2, RN 606792.	
16	Engine Run Post Maintenance Required :	1013 (300'), 15°C, 100% NF, MAP 14°, OIL P 100 PSI, OIL T 80 CHT 250° F. MAGS < 2% each.	

The maintenance recorded has been carried out in accordance with the requirements of New Zealand Civil Aviation Rule Part 43 and in respect of that maintenance the aircraft / component is released to service.

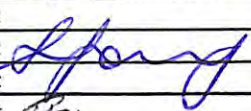

Name	SM Grainger	Sign		Amel #	24612	Date	4/09/15
------	-------------	------	---	--------	-------	------	---------








Central Aero Engineering Ltd

Miscellaneous Work Sheet & Loose Leaf Log Entry - CAE 2 rev 1

DATE	TYPE	R44	REG	HBT	HRS	1019.3	JOB #	3656	SHEETS	1 of 2
ENGINEER NAME	P. Waterhouse	SIGN :				INITIALS :	AMEL #	21299		
ENGINEER NAME	S.M. Grainger	SIGN :				INITIALS :	AMEL #	24612		
ENGINEER NAME	K. Sami	SIGN :				INITIALS :	AMEL #	24894		
ENGINEER NAME	H. Ross	SIGN :				INITIALS :	AMEL #			
ITEM #	WORK REQUIRED				WORK CARRIED OUT				INITIALS	
1	100 Hr Inspection due :				100 Hr Inspection carried out IAW Robinson R44 Maintenance Manual Section 2 410. Inspection carried out IAW Lycoming IO-540 Operators Handbook Section 4.				S	
2	Engine leak down inspection due :				As follows: 1 80 / 78, 3 80 / 77.5, 5 80 / 79, 2 80 / 76, 4 80 / 76, 6 80 / 76.				S	
3	Lycoming SB 366B Carburettor throttle body screw inspection due :				Inspection carried out IAW Lycoming SB 366B - NIL Faults.				S	
4	Lycoming SB 480E Oil + Filter change due :				Filter replacement and oil change carried out during 100 Hr inspection.				S	
5	TCM SB643B Maintenance intervals for all TCM & Bendix Magneto's due :				External Inspection carried out. Mag timing checked - SATIS.				S	
6	TCM SB 658 Distributor gear maint due :				Not due.					
7	TCM SB663A Two wire magneto tacho breaker.				Not due.					
8	Lycoming SI 1129B Methods of checking DC Alternator & generator belt tension.				Inspection carried out IAW Lycoming SI 1129B - NIL Faults.				S	
<p>The maintenance recorded has been carried out in accordance with the requirements of New Zealand Civil Aviation Rule Part 43 and in respect of that maintenance the aircraft / component is released to service.</p>										
Name	SM Grainger	Sign				Amel #	24612	Date	4/09/15	

DATE	18/05/15	TYPE	R44	REG	HBT	HRS	1003.5	JOB #	3586	SHEETS	5 of 5
ENGINEER NAME	P. Waterhouse	SIGN :		INITIALS :		AMEL #	21299				
ENGINEER NAME	S.M. Grainger	SIGN :		INITIALS :	SG	AMEL #	24612				
ENGINEER NAME	K. Sami	SIGN :		INITIALS :		AMEL #	24894				
ENGINEER NAME	H. Ross	SIGN :		INITIALS :	HR	AMEL #					

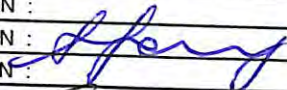












ITEM #	WORK REQUIRED	WORK CARRIED OUT	INITIALS
34	Post Maintenance Ground Run Required :	QNH 1013 175FT, QFE 1007, OAT 16°C, NR 101.0%, MFP 14.5 Hg, OIL PX 100 PSI, OIL Temp 180°F, CHT 300°F, MAGS @ 101.0% L/H >5%, R/H >5%.	
35	DCA/R44/23A - Over-running Clutch Inspection Required :	Tail Boom Assembly removed + re-fitted IAW RHC R44 Maintenance Manual, Chapter 4.330. Clutch Assembly removed IAW RHC R44 Maintenance Manual, Chapter 7.200. Over-running Clutch Assembly, PN C188-3, SN 5970 Rev G TSO 1003.5, R/C 5711.	
36	Duplicate Inspection required on Anti-Torque Bell crank at tail boom junction :	Duplicate Inspection carried out - See Separate entry for duplicate.	
37	Remove fixed point fittings for Helipod :	Fittings removed from skids and fuselage. Flight Manual supplement removed. CAA 2173 Weight & Balance form amended accordingly.	
38	Lower Actuator Bearing due 3 Year / 300 Hr Lube :	Bearing C181-3 lubricated IAW RHC R44 Maintenance Manual, Chapter 1.140.	

The maintenance recorded has been carried out in accordance with the requirements of New Zealand Civil Aviation Rule Part 43 and in respect of that maintenance the aircraft / component is released to service.

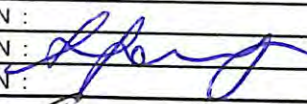










Name	SM Grainger	Sign		Amel #	24612	Date	26/05/15
------	-------------	------	--	--------	-------	------	----------

S. G
LAME
Central Ae

Miscellaneous Work Sheet & Loose Leaf Log Entry - CAE 2 rev 1

DATE	18/05/15	TYPE	R44	REG	HBT	HRS	1003.5	JOB #	3586	SHEETS	4 of 5	
ENGINEER NAME	P. Waterhouse	SIGN :		INITIALS :		AMEL #	21299					
ENGINEER NAME	S.M. Grainger	SIGN :		INITIALS :		AMEL #	24612					
ENGINEER NAME	K. Sami	SIGN :		INITIALS :		AMEL #	24894					
ENGINEER NAME	H. Ross	SIGN :		INITIALS :		AMEL #						
ITEM #	WORK REQUIRED			WORK CARRIED OUT				INITIALS				
26	Re-Lock with Torque Seal head hardware :			Items disturbed re-torque sealed.								
27	Corrosion / Paint missing off both MRB Tips :			Corrosion removed by abrasive method, re-primed with Zinc Phosphate, re-fitted and re-painted in two pot yellow.								
28	Exhaust Muffler Cracked :			Fit new Muffler, PN C169-3, RN 9701, with original clamps + new hardware. L/H Shroud replaced due to cracking.					S. Grainger			
29	Slight Drive Belt rub on rear frame assembly :			Area cleaned + inspected. Mylar tape placed in rub areas.					LAME / Central Aero			
30	Corrosion on Tail Rotor Blades :			Remove corrosion off Tail Rotor Blades using abrasive method. Treat with Alodine and Etch Primer. Top coat in two pot Black paint.								
31	Exhaust Shield Cracked / Broken :			Fit new Exhaust shield, PN D-314-2, RN SH049029.								
32	T/R Balance Required Post Re-Paint :			Balance equipment installed IAW RHC R44 Maintenance Manual 10-240. Balance carried out .15IPS @ 9:59.								
33	Blower Assembly Required Dynamic Balance :			Balance Equipment installed IAW RHC R44 Maintenance Manual 6-240. Blower balanced to 0.01 IPS @ 7:29.								
The maintenance recorded has been carried out in accordance with the requirements of New Zealand Civil Aviation Rule Part 43 and in respect of that maintenance the aircraft / component is released to service.												
Name	SM Grainger	Sign		Amel #	24612	Date	26/05/15					

Miscellaneous Work Sheet & Loose Leaf Log Entry - CAE 2 rev 1

DATE	18/05/15	TYPE	R44	REG	HBT	HRS	1003.5	JOB #	3586	SHEETS	3 of 5
ENGINEER NAME	P. Waterhouse	SIGN :				INITIALS :			AMEL #	21299	
ENGINEER NAME	S.M. Grainger	SIGN :				INITIALS :			AMEL #	24612	
ENGINEER NAME	K. Sami	SIGN :				INITIALS :			AMEL #	24894	
ENGINEER NAME	H. Ross	SIGN :				INITIALS : HR			AMEL #		
ITEM #	WORK REQUIRED			WORK CARRIED OUT					INITIALS		
17	RHC SL 48 - RSA 10AD1 :			As DCA/MA/19 carried out every 200 Hrs - N/A this installation.							
18	RHC SL 49 - M/R Blades - Embodied :			Embodied - New Blades installed previous.							
19	RHC SL 50 - D210 Corrosion Resistant Nuts :			Carried out as required.							
20	RHC SL 51 - Torx Plus Screws :			Carried out as required.							
21	RHC SL 52 - Full Throttle caution lights :			Optional.							
22	RHC SB 88 - Landing Attach Nuts :			N/A by S/N°.							
23	T/R Drive Shaft - Plastic viewing cover Replacement Required :			Replacement Inspection panel installed, PN 558-2.							
24	Cotter Ring Missing off L/H Rear Door Lower Hinge :			Cotter Ring replaced, PN B427-1, RN SH047275.							
25	Corrosion on M/R Head :			Corrosion removed by abrasive method, treated with Alodine & Etch Primer. Re-coat with 2 pot paint.							
The maintenance recorded has been carried out in accordance with the requirements of New Zealand Civil Aviation Rule Part 43 and in respect of that maintenance the aircraft / component is released to service.											
Name	SM Grainger	Sign				Amel #	24612	Date	26/05/15		

S. AM Central

DATE	18/05/15	TYPE	R44	REG	HBT	HRS	1003.5	JOB #	3586	SHEETS	2 of 5
ENGINEER NAME	P. Waterhouse	SIGN :		INITIALS :		AMEL #	21299				
ENGINEER NAME	S.M. Grainger	SIGN :	<i>[Signature]</i>	INITIALS :	<i>SG</i>	AMEL #	24612				
ENGINEER NAME	K. Sami	SIGN :		INITIALS :		AMEL #	24894				
ENGINEER NAME	H. Ross	SIGN :	<i>[Signature]</i>	INITIALS :	<i>HR</i>	AMEL #					
ITEM #	WORK REQUIRED			WORK CARRIED OUT				INITIALS			
9	Lycoming SI 1191A Cylinder compression inspection due :			Inspection carried out as follows: 1 80 / 72, 2 80 / 74, 3 80 / 70, 4 / 80 / 70, 5 80 / 74, 6 80 / 64.				<i>[Signature]</i>			
10	Lycoming SI 1080C Maint items for special attention :			Inspection carried out IAW SI 1080C - NIL Faults.				<i>[Signature]</i>			
11	100 Hr / 12 Month ELT test / inspection due :			ELT test carried out IAW Rule Part 43 Appendix F and Kannad Installation & Maintenance manual. Self test carried out - NIL faults found.				<i>[Signature]</i>			
12	DCA/R44/32B - MRB bonding inspection due :			Inspection carried out IAW AD instructions - NIL faults found.				<i>[Signature]</i>			
13	DCA/R44/27A Cabin door hinge security inspection due :			Inspection carried out IAW AD instructions - 1 x Cotter Ring missing - 1 installed, PN B427-1, RN SH047275.				<i>[Signature]</i>			
14	Air Filter replacement 100 Hr due :			Air Filter replaced with PN 42097, RN 17329.				<i>[Signature]</i>			
15	Engine Oil Filter change 100 Hr due :			Oil Filter replaced with PN AA48108-2, RN 606530.				<i>[Signature]</i>			
16	RHC SL 47 - Tacho Points :			RHC SL47 carried out - NIL Faults Noted.				<i>[Signature]</i>			
<p>The maintenance recorded has been carried out in accordance with the requirements of New Zealand Civil Aviation Rule Part 43 and in respect of that maintenance the aircraft / component is released to service.</p>											
Name	SM Grainger	Sign	<i>[Signature]</i>	Amel #	24612	Date	26/05/15				

S. LAN Central

Miscellaneous Work Sheet & Loose Leaf Log Entry - CAE 2 rev 1

earing

DATE	18/05/15	TYPE	R44	REG	HBT	HRS	1003.5	JOB #	3586	SHEETS	1 of 5
ENGINEER NAME	P. Waterhouse	SIGN :				INITIALS :				AMEL #	21299
ENGINEER NAME	S.M. Grainger	SIGN :				INITIALS :				AMEL #	24612
ENGINEER NAME	K. Sami	SIGN :				INITIALS :				AMEL #	24894
ENGINEER NAME	H. Ross	SIGN :				INITIALS :				AMEL #	

ITEM #	WORK REQUIRED	WORK CARRIED OUT	INITIALS
1	100 Hr Inspection due :	100 Hr Inspection carried out IAW Robinson R44 Maintenance Manual Section 2 410. Inspection carried out IAW Lycoming IO-540 Operators Handbook Section 4.	
2	Engine leak down inspection due :	Refer Item 9.	
3	Lycoming SB 366B Carburettor throttle body screw inspection due :	Inspection carried out IAW Lycoming SB 366B	
4	Lycoming SB 480E Oil + Filter change due :	Filter replacement and oil change carried out during 100 Hr inspection.	
5	TCM SB643B Maintenance intervals for all TCM & Bendix Magneto's due :	Checked for compliance - DCA/ELECT/51B Refers.	
6	TCM SB 658 Distributor gear maint due :	Checked for compliance - SATIS	
7	TCM SB663A Two wire magneto tacho breaker.	Checked for compliance - SATIS	
8	Lycoming SI 1129B Methods of checking DC Alternator & generator belt tension.	Inspection carried out IAW Lycoming SI 1129B.	

The maintenance recorded has been carried out in accordance with the requirements of New Zealand Civil Aviation Rule Part 43 and in respect of that maintenance the aircraft / component is released to service.

Name	SM Grainger	Sign		Amel #	24612	Date	26/05/15
------	-------------	------	--	--------	-------	------	----------



Central Aero Engineering Ltd

Miscellaneous Work Sheet & Loose Leaf Log Entry - CAE 2 rev 1

DATE	30/06/15	TYPE	R44 R1	REG	HBT	HRS	1013.7	JOB #	3623	SHEETS	1 of 2	
ENGINEER NAME	P. Waterhouse	SIGN :					INITIALS :					
ENGINEER NAME	S.M. Grainger	SIGN :										
ENGINEER NAME	K. Sami	SIGN :										
ENGINEER NAME	H. Ross	SIGN :										
AMEL #	21299	AMEL #	24612	AMEL #	24894	AMEL #						
ITEM #	WORK REQUIRED			WORK CARRIED OUT							INITIALS	
1	Tail Rotor Elastomeric Bearing to be Replaced due to inner bush delaminated :			Tail Rotor Hub + Blades removed IAW RHC R44 Maintenance Manual, Chapter 9.210 1-3. Tail Rotor Elastomeric Bearing replaced by Rotor & Wing on R/C 5756. Tail Rotor / Hub re-fitted IAW RHC R44 Maintenance Manual, Chapter 9.220 A1-A9. See separate entry for Dynamic Balance - Item 9.								
2	Rear Cowl AFT attach bracket cracked :			Fit AFT Cowl attach bracket off aircraft ZK-HRR. PN D300-1, Fm ² Refers.								
3	Corrosion to be removed from various places on airframe :			Remove corrosion on lower cooling shroud. Treat with Alodine & prime. Remove corrosion patch on horizontal stabiliser, patches on tail boom and on M/R Mast. Treat all corrosion patches with Alodine & Zinc Phosphate Primer.								
4	Corrosion on Skids where Helipods supports clamp on :			Remove both landing skids and remove surface corrosion with abrasives. Alybrite both skid surfaces and Alodine. Skids re-painted in two pot black by Fleet Image.								
5	Flight Manual Revision Required :			Flight Manual Revision carried out - now March 2015 Rev status.								
6	Cotter Rings missing from Doors :			4 x Cotter Rings replaced - PN B427-1, RN SH047275.								
7	Corrosion on Blade Tips :			Remove Blade Tips and Corrosion. Treat tips & re-paint. Re-fit Tips to Blades.								

The maintenance recorded has been carried out in accordance with the requirements of New Zealand Civil Aviation Rule Part 43 and in respect of that maintenance the aircraft / component is released to service.

Name	SM Grainger	Sign		Amel #	24612	Date	6/07/15
------	-------------	------	--	--------	-------	------	---------

Name	SM Grainger	Sign		Amel #	24612	Date	26/05/15
------	-------------	------	--	--------	-------	------	----------

Central Aero Engineering Ltd

Miscellaneous Work Sheet & Loose Leaf Log Entry - CAE 2 rev 1

DATE	27/11/14	TYPE	R44 Raven	REG	HBT	HRS	934.9	JOB #	3463	SHEETS	1 of 1	
ENGINEER NAME	P. Waterhouse	SIGN :					INITIALS :		AMEL #	21299		
ENGINEER NAME	S.M. Grainger	SIGN :					INITIALS :		AMEL #	24612		
ENGINEER NAME	K. Sami	SIGN :					INITIALS :		AMEL #	24894		
ENGINEER NAME	H. Ross	SIGN :					INITIALS :		AMEL #			

ITEM #	WORK REQUIRED	WORK CARRIED OUT	INITIALS
1	R/H Magneto due DCA/ELECT/51B 4 Year expires :	R/H Magneto 500 Hr Inspection carried out IAW DCA/ELECT/51B - Magneto re-fitted on Central Aero Electrical Fm 1 # 14358.	W
2	Annual First Aid Kit Inspection due :	First Aid kit Inspection carried out - expired items replaced Panadol & 4 x gauze pads. Now SATIS.	W
3	4 month Oil + Filter change due :	Oil changed & replenished with Phillips AW100, RN 15585, Filter PN AA48110-2, RN 605898.	W
4	Rocker drain tubes leaking R/H side :	Tube clips tightened - now SATIS - engine cleaned.	W
5	Chip Plugs Inspection due :	Chip Plugs Inspection carried out - SATIS - Re-fitted + Lock wired.	W
6	Ground Run Required :	Ground Run carried out post maintenance - Mag drops <50 RPM - SATIS.	W
7	Review of Airworthiness due :	Review of Airworthiness carried out using CAA form 24066/07 & emailed to CAA. Original filed on this job number with Central Aero Engineering.	W

The maintenance recorded has been carried out in accordance with the requirements of New Zealand Civil Aviation Rule Part 43 and in respect of that maintenance the aircraft / component is released to service.

Name	P. Waterhouse	Sign		Amel #	21299	Date	28/11/14
------	---------------	------	--	--------	-------	------	----------

P. W
LAN
Central

SECTION 1 SERVICE RECORD

Installed in Aircraft ZK- <u>HBT</u>		At Airframe Hours: <u>0.0</u>		At Tacho Reading:	Date <u>22.10.07</u>	Position <u>A</u>
Date	Daily Hrs Flown	Total Time Since New	Total Time Since O/H	Cycle Recording	Unserviceability Log - Details of unserviceability and required inspections	
Totals brought forward						
<u>28-11-14</u>		<u>934.9</u>			<u>1</u> Loose Leaf Log Entry attached In <u>3463</u> Date <u>27-11-2014</u> Name <u>P. Wainhouse</u> No. <u>21299</u> 4 mth Oil + Filter Change Review of Airworthiness	
					<u>1</u> Loose Leaf Log Entry attached In <u>3496</u> Date <u>7-7-15</u> Name <u>P. Wainhouse</u> No. <u>21299</u>	
<u>12-1-15</u>		<u>952.2</u>			<u>1</u> Loose Leaf Log Entry attached In <u>3498</u> Date <u>12-1-15</u> Name <u>P. Wainhouse</u> No. <u>21299</u>	
Totals carry forward						

Central Aero Engineering Ltd

Miscellaneous Work Sheet & Loose Leaf Log Entry - CAE 2 rev 1

DATE	6/11/13	TYPE	R44 RI	REG	HBT	HRS	837.1	JOB #	3239	SHEETS	1 of 2	
ENGINEER NAME	P. Waterhouse	SIGN :					INITIALS :	AMEL #	21299			
ENGINEER NAME	S.M. Grainger	SIGN :					INITIALS :	AMEL #	24612			
ENGINEER NAME	K. Sami	SIGN :					INITIALS :	AMEL #	24894			
ENGINEER NAME	H. Ross	SIGN :					INITIALS :	AMEL #				
ITEM #	WORK REQUIRED					WORK CARRIED OUT					INITIALS	
1	4 Month Oil change due :					Oil & Filter change carried out IAW Lycoming SB 480E - NIL faults. Filter PN AA48108-2, RN 604095 / Oil AW100, RN 13299.					P	
2	50 Hour Inspection due :					50 Hour Inspection carried out IAW 0-540 Lycoming operators hand book Section 4.					P	
3	24 Month Avionics Inspection due :					24 Month Inspection carried out IAW Part 43 Appendix B,D,E and using Central Aero Engineering inspection form. to 14000'					P	
4	ELT due battery change (finite life) :					ELT removed - PN 51821502-02, SN 2616550-0042. ELT installed - PN 51821502-02, SN 2619125-0045, RN form one 16542 Aviation Safety. Battery now to expire 12/2019. Self test carried out - NIL faults.					P	
5	Annual inspection of T/R & main Transmission chip plugs :					Chip detector inspected IAW RIHC R44 maintenance manual, Chapter 1.115. NIL faults found. Self test carried out.					P	
6	First Aid kit due inspection :					First Aid kit inspected. Satisfactory - Expiry now 6-11-14.					P	
7	Review of Air Worthiness due :					Review of Airworthiness carried out using CAA 24066/07 form. Electronic copy sent to CAA and hard copy kept on file at Central Aero Engineering site. Expiry now 5/11/2014.					P	
8	Post maintenance ground run required :					Ground run carried out - Satisfactory - NIL leaks.					P	

The maintenance recorded has been carried out in accordance with the requirements of New Zealand Civil Aviation Rule Part 43 and in respect of that maintenance the aircraft / component is released to service.

Name	SM Grainger	Sign	Amel #	24612	Date	7/11/13
------	-------------	------	--------	-------	------	---------

Signature

Appro. No.

Date

Page No.

LA

Central Aero



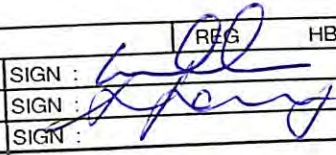
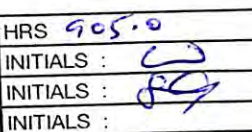
Central Aero Engineering Ltd

Miscellaneous Work Sheet & Loose Leaf Log Entry - CAE 2 rev 1

DATE	10/02/14	TYPE	R44	REG	HBT	HRS	868.4	JOB #	3294	SHEETS	1 of 1
ENGINEER NAME	P. Waterhouse	SIGN :					INITIALS :			AMEL #	21299
ENGINEER NAME	S.M. Grainger	SIGN :					INITIALS :			AMEL #	24612
ENGINEER NAME	K. Sami	SIGN :					INITIALS :			AMEL #	24894
ENGINEER NAME	H. Ross	SIGN :					INITIALS :			AMEL #	
ITEM #	WORK REQUIRED				WORK CARRIED OUT				INITIALS		
1	DCA / R44 / 30 (SB-78) requires embodiment :				Bladder Fuel Tank Installation carried out using RHC Kit PN KI-196, RN 1431 - (R & W). Weight & Balance data updated.						
2	4 Month Oil + Filter Change due :				4 Month Oil + Filter Change carried out - Replenished with 9 Qts Phillips AW100 Oil, RN 13783. Oil Filter changed - PN AA48108-2, RN 607095, Superior. Covers re-fitted.						
3	SB72A - Main Rotor Blade Inspection due :				Main Rotor Blade Inspection carried out - Satisfactory.						
4	SB86 - MX Tacho Magnets Inspection due :				MX Tacho Magnets Inspection carried out - Satisfactory.						
5	SL45 - Lockwire check due :				Lockwire check carried out - found embodied.						
6	SL46 - Air Filter Raised :				Noted for next 100 Hour.						
7	Ground run required :				Ground run carried out for 10 Minutes @ Full Throttle - Ops Satisfactory.						
<p>The maintenance recorded has been carried out in accordance with the requirements of New Zealand Civil Aviation Rule Part 43 and in respect of that maintenance the aircraft / component is released to service.</p>											
Name	P. Waterhouse	Sign				Amel #	21299	Date	18/02/14		

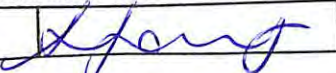
Central Aero Engineering Ltd

Miscellaneous Work Sheet & Loose Leaf Log Entry - CAE 2 rev 1

DATE	21/07/14	TYPE	R44 RI	REG	HBT	HRS	905.0	JOB #	3390	SHEETS	5 of 5			
ENGINEER NAME	P. Waterhouse	SIGN :						INITIALS :						
ENGINEER NAME	S.M. Grainger	SIGN :						AMEL #						21299
ENGINEER NAME	K. Sami	SIGN :						AMEL #						24612
ENGINEER NAME	H. Ross	SIGN :						AMEL #						24894

ITEM #	WORK REQUIRED	WORK CARRIED OUT	INITIALS
23	Stainless Tapes on Engine Require Replacing :	Stainless Tape re-applied as required.	W
24	Engine Induction Gaskets Require Replacement :	Engine Induction Gaskets x 2 replaced - PN 75906, RN 21352, AMO.	W
25	Various areas of corrosion on Airframe :	Corrosion removed from engine cowls & under belly and patch repair carried out on L/H side Cowl.	W
26	Duplicate on MRH, PCL's, Blades :	Duplicate Inspection - Refer Over Page.	W
27	Hydraulic Filter Change due :	Replacement Hydraulic Filter installed IAW R44 M/M, Chap 1.170 - NIL contamination in filter. Hydraulic level topped up.	W
28	100 Hr Inspection on Helipod due :	Fixed items Inspected IAW PMO-11-HP, R44 II SLTL-25-007 - NIL Faults.	W
29	Cellphone holder to be removed at Customers Request :	Cellphone Holder removed + wiring stowed. New CAA 2129 issued.	W
30	SL46 - Air Filter Replacement:	Noted! Parts supply.	W
	SL 47 -	Next 100 Hr / Annual Inspection.	W

The maintenance recorded has been carried out in accordance with the requirements of New Zealand Civil Aviation Rule Part 43 and in respect of that maintenance the aircraft / component is released to service.

Name	SM Grainger	Sign		Amel #	24612	Date	25/08/14
------	-------------	------	---	--------	-------	------	----------

Central

Central Aero Engineering Ltd

Miscellaneous Work Sheet & Loose Leaf Log Entry - CAE 2 rev 1

E	21/07/14	TYPE	R44 RI	REG	HBT	HRS 905.0	JOB #	3390	SHEETS	3 of 5	
ENGINEER NAME	P. Waterhouse	SIGN :				INITIALS :			AMEL #	21299	
ENGINEER NAME	S.M. Grainger	SIGN :				INITIALS :			89	AMEL #	24612
ENGINEER NAME	K. Sami	SIGN :				INITIALS :				AMEL #	24894
ENGINEER NAME	H. Ross	SIGN :				INITIALS :				AMEL #	
ITEM #	WORK REQUIRED				WORK CARRIED OUT				INITIALS		
16	Whilst performing DCA/R44/29B - MRB Insp found to have delamination - both blades require replacing.				Both Blade assemblies removed, PN C016-2, Blade SN 6577, spindle PN C158-1, SN 9146 OFF. PN C016-2 Blade SN 6573, Spindle PN C158-1, SN 9136 OFF. Teeter Friction checked IAW R44 M/M Chap 9.124 - WITHIN LIMITS. Coning Hinge Shim calculation carried out IAW R44 M/M 9.123 - Shims required as per original shim set. New bolt PN NAS 634-105, RN SH 043543 S/S x 2 installed. Bolt stretch carried out IAW R44 M/N Chap 9.112 (new bolt stretched by 0.022") .003" gap measured Both coning hinges. Blade assemblies ON PN C005-12 Blade SN 4763 & 4786, RN SH 043545 - Skysales.						
17	All 4 Rod Ends on PCL's for MRH worn and require replacing :				Both PCL removed, length of & PCL measured. New rod ends installed - PN D173-3 x 4, RN SH 042862 Skysales, 1470 Rotor and Wing, 9047 Heliflite - PCL's re-fitted to head + secured.						
18	Post MRB Replacement Initial Ground Run + Track & Balance Required :				Initial Ground Run carried out. Blade track at idle checked within limits. Blade track at full throttle checked. Horizontal reflector blade required adjusting. PCL adjusted out by 1/2 a turn. Further ground run carried out. Track within limits + balance 0.02 @ 12:42. Awaiting flight test.						

The maintenance recorded has been carried out in accordance with the requirements of New Zealand Civil Aviation Rule Part 43 and in respect of that maintenance the aircraft / component is released to service.

Name	SM Grainger	Sign		Amel #	24612	Date	25/08/14
------	-------------	------	--	--------	-------	------	----------

Central Aero Engineering Ltd

Miscellaneous Work Sheet & Loose Leaf Log Entry - CAE 2 rev 1

DATE	21/07/14	TYPE	R44 RI	REG	HBT	HRS	905.0	JOB #	3390	SHEETS	2 of 5	
ENGINEER NAME	P. Waterhouse	SIGN :					INITIALS :					
ENGINEER NAME	S.M. Grainger	SIGN :										
ENGINEER NAME	K. Sami	SIGN :										
ENGINEER NAME	H. Ross	SIGN :										
ITEM #	WORK REQUIRED					WORK CARRIED OUT					INITIALS	
9	Lycoming SI 1191A Cylinder compression Inspection due :					Inspection carried out IAW SI 1191A - See Item 2.					LD	
10	Lycoming SI 1080C Maint items for special attention :					Inspection carried out IAW Lycoming - SI 1080C - NIL Faults.					LD	
11	100 Hr / 12 Month ELT test / inspection due :					ELT test carried out IAW Rule Part 43 Appendix F and Kannad Installation & Maintenance manual. Self test carried out - NIL faults found.					LD	
12	DCA / R44 / 29B - MRB bonding inspection due :					Inspection carried out IAW AD instructions - Refer Item 15 - For Work carried out.					LD	
13	DCA / R44 / 27A Cabin door hinge security inspection due :					Inspection carried out IAW AD instructions - NIL faults found.					LD	
14	Air Filter replacement 100 Hr due :					Air Filter replaced with PN 42097, RN 14311 - Av Parts.					LD	
15	Engine Oil Filter change 100 Hr due :					Oil Filter replaced with PN AA48108, RN 605210, SAP.					LD	

The maintenance recorded has been carried out in accordance with the requirements of New Zealand Civil Aviation Rule Part 43 and in respect of that maintenance the aircraft / component is released to service.

Name	SM Grainger	Sign		Amel #	24612	Date	25/08/14
------	-------------	------	--	--------	-------	------	----------

Central Aero

Central Aero Engineering Ltd

Miscellaneous Work Sheet & Loose Leaf Log Entry - CAE 2 rev 1

DATE	21/07/14	TYPE	R44 RI	REG	HBT	HRS	905.0	JOB #	3390	SHEETS	1 of 5
ENGINEER NAME	P. Waterhouse	SIGN :					INITIALS :			AMEL #	21299
ENGINEER NAME	S.M. Grainger	SIGN :					INITIALS :			24612	
ENGINEER NAME	K. Sami	SIGN :					INITIALS :			24894	
ENGINEER NAME	H. Ross	SIGN :					INITIALS :			AMEL #	
ITEM #	WORK REQUIRED					WORK CARRIED OUT					INITIALS
1	100 Hr Inspection due :					100 Hr Inspection carried out IAW Robinson R44 Maintenance Manual Section 2 410. Inspection carried out IAW Lycoming 0-540 Operators Handbook Section 4.					SG
2	Engine leak down inspection due :					As follows: 1. 80 / 78, 2. 80 / 76, 3. 80 / 76, 4. 80 / 72, 5. 80 / 74, 6. 80 / 74.					SG
3	Lycoming SB 366B Carburettor throttle body screw inspection due :					Inspection carried out IAW Lycoming SB 366B - NIL Faults.					SG
4	Lycoming SB 480E Oil + Filter change due :					Filter replacement and oil change carried out during 100 Hr inspection.					SG
5	TCM SB643B Maintenance intervals for all TCM & Bendix Magneto's due :					Checked for Compliance - Satisfactory.					SG
6	TCM SB 658 Distributor gear maint due :					Carried out IAW SB 658 - Checked for Compliance -Satis.					SG
7	TCM SB663A Two wire magneto tacho breaker.					Carried out IAW SB 663A - Checked for Compliance - Satis.					SG
8	Lycoming SI 1129B Methods of checking DC Alternator & generator belt tension.					Inspection carried out IAW Lycoming SI 1129 - NIL Faults.					SG

The maintenance recorded has been carried out in accordance with the requirements of New Zealand Civil Aviation Rule Part 43 and in respect of that maintenance the aircraft / component is released to service.

Name	SM Grainger	Sign		Amel #	24612	Date	25/08/14
------	-------------	------	--	--------	-------	------	----------

SECTION 1 SERVICE RECORD

Installed in Aircraft ZK- <u>ABT</u>		At Airframe Hours: <u>00</u>			At Tacho Reading:	Date <u>22-10-07</u>	Position <u>C</u>
Date	Daily Hrs Flown	Total Time Since New	Total Time Since O/H	Cycle Recording	Unserviceability Log - Details of unserviceability and required inspections		
Totals brought forward		<u>800.6</u>					
					/ Loose Leaf Log Entry attached		
					In <u>3239</u> Date <u>7-11-13</u>		
<u>7-11-13</u>		<u>837.1</u>			Name <u>P. Waters</u> No. <u>21299</u>		
				<u>50hr</u>	<u>50 hr Inspect / Avionics / 4mth Oil change</u>		
					/ Loose Leaf Log Entry attached		
					In <u>3294</u> Date <u>18-2-2014</u>		
					Name <u>P. Waters</u> No. <u>21299</u>		
					<u>4 mth Oil change / Bladder Fuel Tank Installation.</u>		
					/ Loose Leaf Log Entry attached		
<u>16-7-14</u>	<u>104.4</u>	<u>905.00</u>			In <u>3390</u> Date <u>25-8-2014</u>		
					Name <u>S. Granger</u> No. <u>24612</u>		
					<u>100 hr Inspection</u>		
					<u>100 hr / 12 mth EHT Test.</u>		
Totals carry forward							



Central Aero Engineering Ltd Miscellaneous Work Sheet & Loose Leaf Log Entry









CAE 2 rev 1

DATE	24/01/2013	TYPE	Robinson R44 R1	REG	HBT	HRS	757	JOB #	2132	SHEETS	1 OF 1	
ENGINEER NAME	S M Grainger	SIGN					INITIALS			AMEL #	24612	
ENGINEER NAME		SIGN					INITIALS			AMEL #		
ENGINEER NAME		SIGN					INITIALS			AMEL #		
ITEM #	WORK REQUIRED			WORK CARRIED OUT						INITIALS		
1	50hr inspection due.			50 hr inspection carried out iaw Lycoming operators amd maintenance handbook Section 4. for 0-540 Series engines. 1x AA48110-2 Oil filter <i>RN 603209.</i> 9x Victory 100AW Oil <i>RN 1137.</i> Ground run carried out Nil leaks.								
2	4 Month oil filter /oil change due.			Oil filter/oil changed during 50hr inspection.								
3	First Aid kit due annual inspection.			Kit inspected satis Now due 4-1-2014.								
4	Annual Airworthiness Review due.			review carried out using CAA Form 24066/07 Rev7 Jan 2011. Electronic copy sent to the CAA and a hard copy kept on file at Central Aero Engineering. Any discrepancies entered into airframe logbook. ARA expires 19-12-2013								
5	Induction gaskets on cylinders 1,3,4,5,6 require replacement due going brittle.			All induction clamps released, old gaskets removed from flanges. Replacement gaskets P/N 71973 X 5 R/N 603305 Superior. New locking washers installed P/N MS 35333-40 X 10.								
6	CHT reported to be fluctuating in operation.			Fault traced to CHT probe inner post turning when wire moved. New item ordered P/N 3080-38. R/N SH030646 Flight line. Customer P/N S2334-3.								
7	RHC SB 72A MRB 4 month inspection due.			Inspection carried out nil faults found.								
The maintenance recorded has been carried out in accordance with the requirements of New Zealand Civil Aviation Rule Part 43 and in respect of that maintenance the aircraft / component is released to service. Narr												
Name	S M. Grainger	Sign					Amel #	24612	Date	24/01/2013		

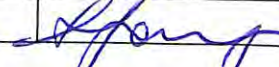
Central Aero Eng.

Central Aero Engineering Ltd Miscellaneous Work Sheet & Loose Leaf Log Entry - CAE 2 rev 1

DATE	23/05/2013	TYPE	Robinson R44 Raven 1	REG	HBT	HRS	800.6	JOB #	3101	SHEETS	3 OF 4
ENGINEER NAME	S M.Grainger	SIGN		INITIALS		AMEL #	24612				
ENGINEER NAME	P Waterhouse	SIGN		INITIALS		AMEL #	21299				
ENGINEER NAME		SIGN		INITIALS		AMEL #					
ENGINEER NAME		SIGN		INITIALS		AMEL #					

ITEM #	WORK REQUIRED	WORK CARRIED OUT	INITIALS
20	All engine sparkplugs worn to limits.	All sparkplugs replaced. 3x UREM38E R/N 10952 Avparts, 9 x UREM38E R/N 12047 AvParts.	
21	CHT ops erratic.	CHT probe removed and tested .Temporarily refitted and checked sysytem with heat gun.Ops checked satis.Probe threads cleaned in head and on probe. Probe refitted and replacement lockwasher fitted.Nuts refitted to probe and locked with loctite.	
22	Corrosion noted on rotating half of swash plate .	Corrosion removed and surface cleaned and primed with zinc phosphate . Top coated with grey laquer.	
23	One MRB requires paint touch up at station at MR station 62.	Area to be painted sanded to feather edges,Area masked and primed with two pot primer.Area lightly sanded and top coated in two pot matt black . SB 72A inspection lines reapplied.	
24	Danger decal on r/h side of vertical stabiliser torn.Requires replacing.	Old decal removed and replacement item fitted.P/N C654-2 R/N SH033386 SkySales.	
25	Hydraulic fluid resivoir requires topping up.	Resivoir topped up to centre of sight glass.	
26	Main transmission requires topping up.	Swepeco 90 oil topped up to centre of sightglass.	
27	Corrosion on rear frame tail boom lugs.	Corrosion removed ,painted in PA10 , Top coated in grey enamel.	

The maintenance recorded has been carried out in accordance with the requirements of New Zealand Civil Aviation Rule Part 43 and in respect of that maintenance the aircraft / component is released to service.

Name	S M.Grainger	Sign		Amel #	24612	Date	23/05/2013
------	--------------	------	--	--------	-------	------	------------

Central Aero Engineering Ltd Miscellaneous Work Sheet & Loose Leaf Log Entry

CAE 2 rev 1

DATE	21/08/2012	TYPE	Robinson R44 R1	REG	HBT	HRS	800.6	JOB #	3101	SHEETS	2 OF 4
ENGINEER NAME	S M.Grainger	SIGN					INITIALS	SG	AMEL #	24612	
ENGINEER NAME	P Waterhouse	SIGN					INITIALS	W	AMEL #	21299	
ENGINEER NAME		SIGN					INITIALS		AMEL #		
ITEM #	WORK REQUIRED			WORK CARRIED OUT						INITIALS	
11	L/h magneto requires retiming.			L/h magneto retimed to 25DBTDC.							
12	100hr/12 month elt test/inspection.			Elt test carried out iaw Rule Part43 Appendix F and Kannad Installation and maintenance manual. Self test carried out. Nil faults found.							
13	DCA/R44/29A MRB bonding inspection due.			Inspection carried out iaw AD instructions and nil faults found.							
14	DCA/R44/27A Cabin door hinge security inspection.			Inspection carried out iaw AD instructions and nil faults found. 2X Door retaining rings P/N B427-1 installed.							
15	Lyc SB 388C Exhaust valve guide condition inspection.			Inspection carried out iaw SB instructions as follows: 1/0.011 2/ 0.015 3/ 0.025 4/ 0.015 5/0.015 6/0.020							
16	Cable ties broken on engine loan due to age.			Ties replaced as required.							
17	RHC SB72A MRB bond line inspection due.			Inspection carried out iaw SB instructions[DCA/R44/29A] Nil faults found. Techlog annotated that inspection now due also at every 4 months.							
18	Airfilter due replacement [100hr]			Filter replaced P/N 42097 R/N 11076							
19	Engine oil filter due change. [100hr]			Oil filter replaced P/N AA48108-2 R/n 13112 SAP							

The maintenance recorded has been carried out in accordance with the requirements of New Zealand Civil Aviation Rule Part 43 and in respect of that maintenance the aircraft / component is released to service. Na

Name	S M.Grainger	Sign		Amel #	24612	Date	23/05/2013
------	--------------	------	--	--------	-------	------	------------

Central Aero Engineering Ltd Miscellaneous Work Sheet & Loose Leaf Log Entry

CAE 2 rev 1

DATE	23/05/2013	TYPE	Robinson R44 R1	REG	NHT	HRS	800.6	JOB #	3101	SHEETS	1 OF 4
ENGINEER NAME	S M.Grainger	SIGN		INITIALS						AMEL #	24612
ENGINEER NAME	P Waterhouse	SIGN		INITIALS						AMEL #	21299
ENGINEER NAME		SIGN		INITIALS						AMEL #	

ITEM #	WORK REQUIRED	WORK CARRIED OUT	INITIALS
1	Helicopter due 100hr inspection.	Inspection carried out iaw Robinson R44 M/M Section 2.410 . Engine 100hr inspection carried iaw Lycoming O-540 Operators manual Section 4.	
2	Engine leakdown inspection due.	As follows:1/75/802/ 72/80 3/72/80 4/ 74/80 5/ 72/80 6/ 70/80	
3	Lycoming SB 366B Carburettor throttle body screw inspection.	Inspection carried out .Nil faults	
4	Lycoming SB 480E Oil and filter change .	Filter replacement and oil change carried out during 100hr inspection. <i>Oil @ 11780. Filter RP 13112.</i>	
5	TCM SB643B Maint intervals for all TCM & Bendix magneto's.	Not due at this visit.	
6	TCM SB 658 Distributor gear maint.	Carried out as above.	
7	TCM SB663A Two wire magneto tacho breaker.	Carried out as above.	
8	Lycoming SI 1129B Methods of checking dc alternator and generator belt tension.	Inspection carried out .Nil faults found.	
9	Lycoming SI 1191A Cylinder compression.	Carried out see item 2	
10	Lycoming SI1080C Maint items for special attention.	Inspection carried out ,nil faults found.	

The maintenance recorded has been carried out in accordance with the requirements of New Zealand Civil Aviation Rule Part 43 and in respect of that maintenance the aircraft / component is released to service. Na

Name	S M.Grainger	Sign		Amel #	24612	Date	23/05/2013
------	--------------	------	--	--------	-------	------	------------

SECTION 1 SERVICE RECORD

Installed in Aircraft ZK- <u>HB7</u>		At Airframe Hours: <u>0.0</u>		At Tacho Reading:	Date <u>22-10-07</u>	Position <u>E</u>
Date	Daily Hrs Flown	Total Time Since New	Total Time Since O/H	Cycle Recording	Unserviceability Log - Details of unserviceability and required inspections	
Totals brought forward		<u>700.7</u>				
					<u>1</u> Loose Leaf Log Entry attached	
					In <u>2253</u> Date <u>16-10-12</u>	
					Name <u>INTERHOUSE</u> No. <u>2129</u>	
					<u>1</u> Loose Leaf Log Entry attached	
					In <u>2097</u> Date <u>6-12-12</u>	
					Name <u>INTERHOUSE</u> No. <u>2129</u>	
					<u>1</u> Loose Leaf Log Entry attached	
					In <u>2132</u> Date <u>24-1-2013</u>	
					Name <u>S. COOPER</u> No. <u>24612</u>	
<u>21-5-2013</u>	<u>99.9</u>	<u>800.6</u>			<u>SOHR INSPECTION</u> <u>REPLACES INDUCTION GASKETS</u> <u>ON CYLINDERS 1, 3, 4, 5, 6</u>	
					<u>4</u> Loose Leaf Log Entry attached	
					In <u>3101</u> Date <u>23-5-2013</u>	
Totals carry forward		<u>800.6</u>			Name <u>S. COOPER</u> No. <u>24612</u> <u>100% INSPECTION</u>	

DATE	21/08/2012	TYPE	Robinson R44 R1	REG	HBT	HRS	700.7	JOB #	1995	SHEETS	3 OF 4
ENGINEER NAME	S M.Grainger	SIGN		INITIALS						AMEL #	24612
ENGINEER NAME	K Sami	SIGN		INITIALS						AMEL #	24894
ENGINEER NAME	P Waterhouse	SIGN		INITIALS						AMEL #	21299

ITEM #	WORK REQUIRED	WORK CARRIED OUT	INITIALS
19	RHC SB84 Fuel cap placarding.	Cap marking already found carried out satis.	
20	RHC SB 57 Exhaust tailpipe extension inspection.	N/A this aircraft due nil extension fitted.	
21	Lower bearing C181-3 regrease due.	Regrease carried out aiw RHC R44 Maint manual Section 1.140 .Nil faults found.	
22	Owner requests aircraft battery change . Due down on start capacity.	Replacement battery installed P/N RG-25XC S/N 40515858 Release Note 8979 AvParts. Ground run carried out .Starts normal.	
23	Hydraulic powerpack requires fluid top up.	50 mls of Fluid 41 added .	
24	During 100hr inspection it was noted that there was corrosion around T.R gearbox attach ,on the horizontal stabiliser and at points along tail boom.	Horizontal stabiliser removed and corrosion removed by hand . Corrosion removed of tail boom by hand . Landing gear leg cuffs ,both forward items removed and corrosion removed. Underbelly inspection panels x 2 removed and corrosion removed by hand. All removed items sent to APS to be painted.Areas on main part of helicopter painted in hangar. Paint colour matched by APS. Removed items refitted and secured iaw RHC R44 M/M Section 1.330. Lower panels installed with nas 1515 nylon washers.	
25	Post 100hr ground run required.	As follows:QNH 1013[280FT +] ,OAT 19C,NR 100%,MAP 14.5",OIL PX 100PSI,OILTEMP 80F,CHT 250F,MAGS L/H <5% R/H<5%	

The maintenance recorded has been carried out in accordance with the requirements of New Zealand Civil Aviation Rule Part 43 and in respect of that maintenance the aircraft / component is released to service. Na

Name	S M.Grainger	Sign		Amel #	24612	Date	21/08/2012
------	--------------	------	--	--------	-------	------	------------

Central Aero Engineering Ltd Miscellaneous Work Sheet & Loose Leaf Log Entry

CAE 2 rev 1

DATE	21/08/2012	TYPE	Robinson R44 R1	REG	HBT	HRS	700.7	JOB #	1995	SHEETS	2 OF 4
ENGINEER NAME	S M.Grainger	SIGN		INITIALS						AMEL #	24612
ENGINEER NAME	K Sami	SIGN		INITIALS						AMEL #	24894
ENGINEER NAME	P Waterhouse	SIGN		INITIALS						AMEL #	21299
ITEM #	WORK REQUIRED			WORK CARRIED OUT							INITIALS
11	Annual chip detector inspection due.			Inspection carried out iaw RHC M.M Section 1.115 .Nil faults found.							
12	100hr/12 month elt test/inspection.			Elt test carried out iaw Rule Part43 Appendix F and Kannad Installation and maintenance manual.Self test carried out.Nil faults found.							
13	DCA/R44/29A MRB bonding inspection due.			Inspection carried out iaw AD instructions and nil faults found.							
14	DCA/R44/27A Cabin door hinge security inspection.			Inspection carried out iaw AD instructions and nil faults found.							
15	DCA/ELECT/51B Due on l/h magneto. 500hr inspection.			Magneto P/N BL-600616-3 S/N E08GA060R removed for inspection. Magneto sent to Central Aero Electrical for inspection.Magneto refitted into original position .Release Cert 43612 Central Aero Electrical. Magneto retimed 25DBTDC. Ground run carried out satisfactory.See post 100hr ground run figures.							
16	RHC SB72A MRB bond line inspection due.			Inspection carried out iaw SB instructions[DCA/R44/29A]Nil faults found. Techlog annotated that inspection now due also at every 4 months.							
17	RHC SB82 Main rotor tx brake microswitch replacement.			Microswitch replaced iaw SB 82 instructions. P/N D049-4 R/N SHO25572 Skysales Aviation.							
18	RHC SB83 T/R Blades fatigue cracks.			Blades inspected and nil faults found .Flight manual sheet added per RHC instructions.							
The maintenance recorded has been carried out in accordance with the requirements of New Zealand.Civil Aviation Rule Part 43 and in respect of that maintenance the aircraft / component is released to service. Na											
Name	S M.Grainger	Sign		Amel #	24612	Date	21/08/2012				

Name	Waterhouse	Sign	
------	------------	------	--

Central Aero Engineering Ltd Miscellaneous Work Sheet & Loose Leaf Log Entry

CAE 2 rev 1

DATE	21/08/2012	TYPE	Robinson R44 R1	REG	HBT	HRS	700.7	JOB #	1995	SHEETS	1 OF 4
ENGINEER NAME	S M.Grainger	SIGN		INITIALS						AMEL #	24612
ENGINEER NAME	K Sami	SIGN		INITIALS						AMEL #	24894
ENGINEER NAME	P Waterhouse	SIGN		INITIALS						AMEL #	21299
ITEM #	WORK REQUIRED			WORK CARRIED OUT						INITIALS	
1	Helicopter due 100hr inspection.			Inspection carried out iaw Robinson R44 M/M Section 2.410 . Engine 100hr inspection carried iaw Lycoming O-540 Operators manual Section 4.							
2	Engine leakdown inspection due.			Leak down as follows>:1/ 74/80 2/ 74/80 3/ 72/80 4/ 72/80 5/ 79/80 6/ 72/80 .							
3	Lycoming SB 366B Carburettor throttle body screw inspection.			Inspection carried out .Nil faults							
4	Lycoming SB 480E Oil and filter change .			Filter replacement and oil change carried out during 100hr inspection.							
5	TCM SB643B Maint intervals for all TCM & Bendix magneto's.			Carried out L/H magneto removed for 500hr inspection.							
6	TCM SB 658 Distributor gear maint.			Carried out as above.							
7	TCM SB663A Two wire magneto tacho breaker.			Carried out as above.							
8	Lycoming SI 1129B Methods of checking dc alternator and generator belt tension.			Inspection carried out .Nil faults found.							
9	Lycoming SI 1191A Cylinder compression.			Carried out see item 2							
10	Lycoming SI1080C Maint items for special attention.			Inspection carried out ,nil faults found.							
The maintenance recorded has been carried out in accordance with the requirements of New Zealand Civil Aviation Rule Part 43 and in respect of that maintenance the aircraft / component is released to service. Na											
Name	S M.Grainger	Sign		Amel #	24612	Date	21/08/2012				

Centi

SECTION 1 SERVICE RECORD

Installed in Aircraft ZK- <u>HBT</u>		At Airframe Hours: <u>00</u>			At Tacho Reading:	Date <u>22.10.</u>	Position <u>E</u>
Date	Daily Hrs Flown	Total Time Since New	Total Time Since O/H	Cycle Recording	Unserviceability Log - Details of unserviceability and required inspections		
Totals brought forward							
					<input checked="" type="checkbox"/> Loose Leaf Log Entry attached In <u>1708</u> Date <u>18-10-11</u> Name <u>MATTHEWS</u> No. <u>2124</u>		
					<input checked="" type="checkbox"/> Loose Leaf Log Entry attached In <u>1780</u> Date <u>4-1-12</u> Name <u>MATTHEWS</u> No. <u>2124</u>		
<u>21-8-12</u>	<u>99.1</u>	<u>700.7</u>			<input checked="" type="checkbox"/> Loose Leaf Log Entry attached In <u>1995</u> Date <u>21.8.2012</u> Name <u>S. GANER</u> No. <u>21612</u> (LOOK INSPECTION DIS DETECTED 518 SPDR NIBB. L/A)		
Totals carry forward		<u>700.7</u>					

Central Aero Engineering Ltd Miscellaneous Work Sheet & Loose Leaf Log Entry

CAE 2 rev 1

DATE	26/08/2011	TYPE	Robinson R44 R1	REG	1181	HRS	601.6	JOB #	1661	SHEETS	3 OF 3
ENGINEER NAME	S M.Grainger	SIGN					INITIALS	SMG		AMEL #	24612
ENGINEER NAME	P Waterhouse	SIGN					INITIALS	PW		AMEL #	21299
ENGINEER NAME		SIGN					INITIALS			AMEL #	
ITEM #	WORK REQUIRED			WORK CARRIED OUT						INITIALS	
20	Small amounts of corrosion noted on main rotorhead .			Corrosion removed by abrasive method ,treated and reprotected abd painted in two part topcoat.						W	
21	Oil leak noted around lower cylinder drain tubes.			All drain tubes removed and inspected for condition .3 X Drain tube rubbers P/N STD-1821 installed.All other rubber tubes reinstalled and resecured.						SMG	
22	Engine induction gaskets found to be brittle and breaking away.All gaskets to be replaced.			All induction pipes removed as required and gaskets replaced with new items. All locking washers replaced.						SMG	
23	Repaired artficial horizon to be reinstalled.			Artificial horizon installed and powered up.A/H failed to operate and noted burning smell. A/H removed for further repair.						SMG	
24	Cell phone interface volume low.			Volume adjusted up as required.						W	
25	Engine cylinder leakage check due. 100 hr			Leak check as follows:1/ 75/80 2/ 70/80 3/ 75/80 4/ 68/80 5/72/80 6/ 74/80.						W	
26	Post 100hr ground run required.			Ground run as follows:PA -200FT,OAT 20C,OILPX100 PSI,OIL TEMP 80F,CHT220F, 100%NR MAP 14.5" MAGS L<5% R<5%.						W	

The maintenance recorded has been carried out in accordance with the requirements of New Zealand Civil Aviation Rule Part 43 and in respect of that maintenance the aircraft / component is released to service. Na

Name	S M.Grainger	Sign		Amel #	24612	Date	26/08/2011
------	--------------	------	--	--------	-------	------	------------

Central Aero Engineering Ltd Miscellaneous Work Sheet & Loose Leaf Log Entry

CAE 2 rev 1

DATE	26/08/2011	TYPE	Robinson R44 R1	REG	HB1	HRS	601.6	JOB #	1661	SHEETS	2 OF 3
ENGINEER NAME	S M.Grainger	SIGN		INITIALS	SG	AMEL #	24612				
ENGINEER NAME	P Waterhouse	SIGN		INITIALS	W	AMEL #	21299				
ENGINEER NAME		SIGN		INITIALS		AMEL #					
ITEM #	WORK REQUIRED			WORK CARRIED OUT				INITIALS			
10	DCAR44/29 MRB bonding inspection due.			Inspection carried out iaw AD instructions. Nil faults found.							
				Authority letter issued to pilot to carry out requirement 1 of AD. Certification sheet placed in Flight Manual.				SG			
11	MRB require paint touch up at outer 6 "due to L/E erosion.			Blades repainted per instructions of SB72.				W			
12	Robinson SB 72 MRB inspection due.			Inspection carried out on MRB ,Nil faults found.				SG			
13	Robinson SL 33 Overrunning clutch inspection due.			Inspection carried out during post maint ground run. Nil faults found.				SG			
14	Robinson SB 79 Sprag clutch inspection.			N/A due to Revision H status of clutch installed.				SG			
15	Lycoming SB 366,SI1080B,SI1129B due.			Inspections carried out nil faults found.				W			
16	TCM SB643B Due.			Inspection carried out .Nil faults found.				W			
17	Recowling inlet vane pulled away from attachment.			Vane refitted to cowl as required.				W			
18	Anti-skid tape to be applied to skids.			Tape fitted as required .				W			
19	Post tailrotor PCL change ,tailrotor balance to be carried out.			Tailrotor balance carried out and no adjustment required. Balancing equipment removed. Duplicate safety inspection carried .				SG			
The maintenance recorded has been carried out in accordance with the requirements of New Zealand Civil Aviation Rule Part 43 and in respect of that maintenance the aircraft / component is released to service. Na											
Name	S M.Grainger	Sign		Amel #	24612	Date	26/08/2011				

Central Aero Engineering Ltd. Miscellaneous Work Sheet & Loose Leaf Log Entry

CAE 2 rev 1

DATE	26/08/2011	TYPE	RobinsonR44 R1	REG.	HBT	HRS	601.6	JOB #	1661	SHEETS	1 OF 3
ENGINEER NAME	S M.Grainger	SIGN			INITIALS			AMEL #	24612		
ENGINEER NAME	P Waterhouse	SIGN			INITIALS			AMEL #	21299		
ENGINEER NAME		SIGN			INITIALS			AMEL #			
ITEM #	WORK REQUIRED			WORK CARRIED OUT						INITIALS	
1	100hr inspection due.			100hr inspection carried out iaw Robinson R44 m/m Section 2 100hr inspection carried out iaw Lycoming operators and maint manual							
2	100hr/12month Elt insp/test due.			Inspection carried out iaw Rule part 43 Appendix F and Kannad operators and installation instructions. Self test function carried out satisfactory.							
3	Main rotor transmission and tail rotor gear box chip detectors due annual inspection.			Chip detectors removed and inspected iaw Robinson R44 m/m Section 1.115. Nil faults found.							
4	500 hr main transmission and tailrotor gear box oil change due.			Oil drained and replenished with A257-2 Oil.Ground run carried out and oil level checked satis. Carried out iaw Robinson R44 m/m Sections 1.120 and 1.130.							
5	Flight control hydraulic filter due replacement.			Replacement filter installed .P/N AN6235-1A.Ground run carried out.Nil leaks noted. Carried out iaw Robinson R44 m/m Section 1.170.							
6	300hr/12 month lower bearing lube due.			Clutch actuator lower bearing lube carried out iaw Robinson R44 m/m Section 1.140,							
7	Engine due 4 monthly oil change.			Oil change carried out during 100 hr inspection.							
8	100hr Helipod inspection due.			Inspection carried out on fixed items installed .Nil faults found. C/o iaw Chapter 5.1 PM011-HPR4411SLTL-25-007.Nil faults found.							
9	DCA/R44/26B MRB blade bonding insp to be cancelled.			DCA/R44/26B Cancelled DCA/R44/29 Refers.							
The maintenance recorded has been carried out in accordance with the requirements of New Zealand Civil Aviation Rule Part 43 and in respect of that maintenance the aircraft / component is released to service. Na											
Name	S M.Grainger	Sign			Amel #	24612	Date	26/08/2011			

SECTION 1 SERVICE RECORD

Installed in Aircraft ZK- <u>HBT</u>		At Airframe Hours: <u>0.0</u>			At Tacho Reading:	Date <u>22.10.07</u>	Position <u>C</u>
Date	Daily Hrs Flown	Total Time Since New	Total Time Since O/H	Cycle Recording	Unserviceability Log - Details of unserviceability and required inspections		
Totals brought forward		<u>499.2</u>					
	<u>102.4</u>						
<u>26-8-2011</u>		<u>601.6</u>			<u>3</u> Loose Leaf Log Entry attached In <u>1661</u> Date <u>26-8-2011</u> Name <u>S. Grant</u> No. <u>24612</u> 10010 INSPECTION DUE ALL INDUCTION GASKETS REPLACED. REPAIR OIL LEAK.		
Totals carry forward							

SECTION 1 SERVICE RECORD

Installed in Aircraft ZK-HBT		At Airframe Hours: 0.0		At Tacho Reading:	Date 22.10.07	Position <i>C</i>
Date	Daily Hrs Flown	Total Time Since New	Total Time Since O/H	Cycle Recording	Unserviceability Log - Details of unserviceability and required inspections	
Totals brought forward		499.2				
26.8.2011	102.4	601.6			<u>3</u> Loose Leaf Log Entry attached In <u>1661</u> date <u>26.8.2011</u> Name <u>S. Grant</u> No. <u>24612</u> 100 HR INSPECTION DUE ALL INDUCTION GASKETS REPLACED. BEARING OIL LEAK.	
Totals carry forward						

ENGINE COMPRESSIONS	1/76/80	2/70/80	3/73/80	Cromford	24612	19-12-10	1421
	4/75/80	5/80/80	6/76/80	Agony			

512
 spring
 Granger
 24612
 meeting
 CAB

per
 512
 meeting

*NOTE - A signature, licence number and date in these columns constitutes a release to service in accordance with Civil Aviation Rule - Part 43, 105

DATE	19/12/2010	TYPE	R44 Raven 1	REG	HBT	HRS	499.2	JOB #	1421	SHEETS	3 of 3
ENGINEER NAME	S M.Grainger	SIGN		INITIALS		AMEL #	24612				
ENGINEER NAME	P Waterhouse	SIGN		INITIALS		AMEL #	21299				
ENGINEER NAME		SIGN		INITIALS		AMEL #					
ITEM #	WORK REQUIRED			WORK CARRIED OUT							INITIALS
17	DCA/ELECT/51B Due.			L/h magneto removed P/N 10-600646-201 S/N E07FA189 Starter Vibrator removed P/N 10-176487-121 S/N CA36510 . Both sent to Central Aero Electrical for 500 hr inspection. Items same as above reinstalled post inspection on Release Cert 36510 Central Aero electrical.							
18	DCA/R44/23 Overrunning clutch insp.			Clutch assy removed from helicopter iaw Robinson R44 Maint manual 7.200-7.213 Clutch assy P/N C018-2 S/N 5224 Sent to Rotor and Wing for inspection. Clutch assy same as above returned from inspection and reinstalled . Clutch assy refitted iaw m/m 7.200-7.213 on Release Cert 4010 Rotor and Wing. Cooling fan balanced as required and adjusted to 0.05 @ 1230/ Balancing equipment removed and engine cowlings refitted.							
19	Lo rotor speed horn inop .			Horn assy repleaced with serviceable item P/N B320-1 Release Cert 5251. Ops now satisfactory.							
20	DCA/ELECT/6C&3C Mag switch inspection test.			Ignition switch inspected and required replacement switch kit. P/N 10-357510 Release Cert 600597 Superior Air Parts. 6C Carried out, test found satis.							
21	MRB require tip paint work tidied up.			Area masked off and paint touched up as required. Small amount of corrosion removed from tail rotor hub. Area cleaned and reprotected and painted.							
22	Ground run post maint required.			Ground run as follows: NR 100%. 14" MAP, 250 FCHT, 175F OIL TEMP, OIL PX 110							

The maintenance recorded has been carried out in accordance with the requirements of New Zealand Civil Aviation Rule Part 43 and in respect of that maintenance the aircraft / component is released to service. Yes No

Name	S M.Grainger	Sign		Amel #	24612	Date	19/12/2010
------	--------------	------	--	--------	-------	------	------------

Central Aero Engineering Ltd Miscellaneous Work Sheet & Loose Leaf Log Entry

CAE 2 rev 1

DATE	19/12/2010	TYPE	R44 Raven 1	REG	HBT	HRS	499.2	JOB #	1421	SHEETS	2 of 3
ENGINEER NAME	S M.Grainger	SIGN		INITIALS	AMEL #	24612	AMEL #	21299	AMEL #		
ENGINEER NAME	P Waterhouse	SIGN		INITIALS	AMEL #		AMEL #		AMEL #		
ENGINEER NAME		SIGN		INITIALS	AMEL #		AMEL #		AMEL #		

ITEM #	WORK REQUIRED	WORK CARRIED OUT	INITIALS
8	Annual MRGB and TRGB chip detectors due.	Chip detectors removed and no fault found	
9	Robinson SB 74 MRGB input yoke nut torque check due.	Nut torque checked per instructions in SB .Nil fault found.	
10	Robinson SB 72 MRB inspection.	Blades cleaned and tapping lines redrawn on underide of blade. Tap test carried out nil faults found.	
11	Robinson SL 33 Overrun clutch run down check.	Run down check carried out.Nil faults found.	
12	Robinson SB 57 Tailpipe inspection due.	Inspection carried out and nil faults found.	
13	DCA/R44/27A Door security inspection	Inspection carried out nil faults found.	
14	DCA/R44/26A MRB inspection.	Inspection carried .Nil faults found.	
15	Robinson SB 77 Clutch actuator wiring inspection.	Inspection carried out per SB.Nil faults found.	
16	100hr Helipod inspection due.	Helipod inspection carried out iaw Chapter 5.1 PMO11-HPR4411SLTL-25-007 ICA'S.Nil faults found.	

The maintenance recorded has been carried out in accordance with the requirements of New Zealand Civil Aviation Rule Part 43 and in respect of that maintenance the aircraft / component is released to service. Na

Name	S M.Grainger	Sign		Amel #	24612	Date	19/12/2010
------	--------------	------	--	--------	-------	------	------------

Central

DATE	19/12/2010	TYPE	R44 Raven 1	REG	1421	SHEETS	1 of 3
ENGINEER NAME	S M.Grainger	SIGN		INITIALS		AMEL #	24612
ENGINEER NAME	P Waterhouse	SIGN		INITIALS		AMEL #	21299
ENGINEER NAME		SIGN		INITIALS		AMEL #	

ITEM #	WORK REQUIRED	WORK CARRIED OUT	INITIALS
1	100hr inspection due.	100hr inspection carried out iaw Robinson R44 Maint/manual Section 2. 100hr engine inspection carried out iaw Lycoming Operator manual section 4. Compressions as follows:1/ 76/80 2/70/80 3/ 73/80 4/75/80 5/ 80/80 6/ 76/80	Jong
2	Lycoming SB388C Exhaust valve inspect due.	Inspection carried out iaw Lycoming SB 388C and results as follows: 1/ 0.020 2/0.020 3/ 0.020,4/ 0.020 5/ 0.020 6/ 0.015 .	W
3	Lycoming SB 366 ,SI 1080B,SI 1129B due.	SB'S Carried out .Nil faults found.	W
4	TCM SB 643B	Carried out nil faults found.	W
5	Annual Review of Airworthiness due.	ARA carried out on J/N 1404.Electronic copy sent to CAA.Copy on file at Central Aero Engineering . Defects observed: AD'S to be asessed and entered E,FE,N/A .Now entered in Airwothiness Directive log. Manufacturers SB'S to be assessed .SB'S assessed and entered E,FE,N/A. CAA 2173 doesn't match logbook.Replacement CAA 2173 issued and placed in F/M Flight Manual Revision status incorrect.Correct revision status LOEP and applicable pages replaced.13-5-2009.	Jong
6	First aid kit due annual inspection.	Annual inspection carried out .Expiry now 19-12-2011	Smg
7	100hr/12month Elt test/inspection due.	Elt inspection carried out iaw Kannad operators and installation manual and Part 43 App F.Self test carried out satis factory.	Smg

The maintenance recorded has been carried out in accordance with the requirements of New Zealand Civil Aviation Rule Part 43 and in respect of that maintenance the aircraft / component is released to service. Na

Name	S M.Grainger	Sign		Amel #	24612	Date	19/12/2010
------	--------------	------	--	--------	-------	------	------------

SECTION 1 SERVICE RECORD

Installed in Aircraft ZK- <u>HBT</u>		At Airframe Hours: <u>0.0</u>			At Tacho Reading:	Date <u>22.10.07.</u>	Position <u>E</u>
Date	Daily Hrs Flown	Total Time Since New	Total Time Since O/H	Cycle Recording	Unserviceability Log - Details of unserviceability and required inspections		
Totals brought forward							
<u>19-12-10</u>		<u>499.2</u>					
					<u>1</u> Loose Leaf Log Entry attached		
					In <u>1333</u> Date <u>1-7-10</u>		
					Name <u>in ATTORNEYS</u> No. <u>2120</u>		
					<u>3</u> Loose Leaf Log Entry attached		
					In <u>1421</u> Date <u>19-12-2010</u>		
					Name <u>CANCEL</u> No. <u>24612</u>		
					100hr inspection due		
					MCCANN SB 388C		
					<u>1</u> Loose Leaf Log Entry attached		
					In <u>1509</u> Date <u>17.3.2011</u>		
					Name <u>CANCEL</u> No. <u>24612</u>		
					SONR inspection @ 549.4 A/P 12J		
Totals carry forward		<u>499.2</u>					

Central Aero Engineering Ltd Miscellaneous Work Sheet & Loose Leaf Log Entry

CAE 2 rev 1

DATE	6/05/2010	TYPE	R44Raven	REG	HBT	HRS	399.8	JOB #	1251	SHEETS	1 of
ENGINEER NAME	Grainger	SIGN		INITIALS						AMEL #	24612
ENGINEER NAME	Waterhouse	SIGN		INITIALS						AMEL #	21299
ENGINEER NAME		SIGN		INITIALS						AMEL #	

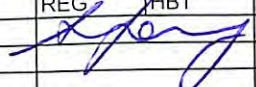
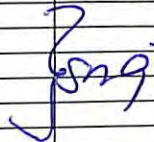
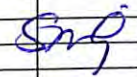
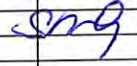
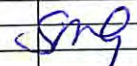
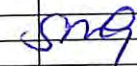

ITEM #	WORK REQUIRED	WORK CARRIED OUT	INITIALS
1	100 hr inspection due	100 hr inspection c/o IAW R44 MM & Lycoming 0540 M/M. Oil changed Phillips AW100 Rn 15195. Oil Filter Pn AA48110-2 Rn 4208. Air filter changed PN C771-1 Rn 4561. Leak downs 1 70 2 72 3 75 4 73 5 75 6 76 satis.	
2	100 hr/ Ann ELT Check due	100hr/ann ELT check c/o IAW Manufacturers instructions, ops satis.	
3	SL33 rundown check required	SL33 Clutch rundown check C/O ops satis.	
4	SB Compliance required	SI1080C, SB480C, SB366, SI1080B, SI1129B c/o.	
5	DCA/R44/26A & 27A due	DCA/R44/26A MRB insp c/o found satis. DCA/R44/27A Doors insp c/o found satis.	
6	Helipod inspection due	Helipod inspection c/o IAW ICA condition satis.	
7	Low rotor horn inop, light ops correct.	Fault find lo rotor warn horn, rectify wiring, refit ops now satis.	
8	Cell phone ops unsatisfactory	Cell phone repaired via HAM Avionics ref loose leaf log entry.	
9	#2 cyl priming line broken at cylinder fitting	Primer line re flared to rectify and refitted. Ops now satis.	
10	Ground run required	Ground run C/O 15*c, 1019Mb, 180*f OT, 260*f CHT, 108 psi OP 100%Nr, mags 4%. ops satis	

The maintenance recorded has been carried out in accordance with the requirements of New Zealand Civil Aviation Rule Part 43 and in respect of that maintenance the aircraft / component is released to service. Na

Name	Grainger	Sign		Amel #	24612	Date	7/05/2010
------	----------	------	--	--------	-------	------	-----------

Central Aero Engineering Ltd Miscellaneous Work Sheet & Loose Leaf Log Entry

CAE 2 rev 1

DATE	17/05/2010	TYPE	R44 Rav 1	REG		FHT		HRS		JOB #	1258	SHEETS	1 OF 1
ENGINEER NAME	S M.Grainger	SIGN		INITIALS		AMEL #	24612						
ENGINEER NAME		SIGN		INITIALS		AMEL #							
ENGINEER NAME		SIGN		INITIALS		AMEL #							
ITEM #	WORK REQUIRED	WORK CARRIED OUT	INITIALS										
1	Starter ring gear has damaged teeth requires replacement.	Rear cowling and side cowls removed for access. Fan and scroll assy removed iaw R44 M/M 6.210 1-11. Ring gear removed iaw R44 M/M 7.291 A-G3. Fan and scroll assy refitted iaw R44 M/M 6.220 1-11. Ring gear P/N 72566 Release Cert 9465 Aeromotive. Rear cowling and side cowling refitted post ground runs.											
2	Replace crankshaft seal due to oil leakage.	While carrying out the above crankshaft seal assy replaced. P/N LW-11997											
3	Carry out cooling fan balance iaw R44 M/M 6.220 Item 12.	Balance carried out .2 ips.											
4	Starter removed for repair due to damage on drive gear teeth .	Starter removed for repair and sent to Central Aero Electrical for repair. P/N BC315-100-2 S/N 0907120928 OFF and refitted. Release Cert 20510 Central Aero Electrical.											
5	Carry out track and balance on M/R blades. Customer request.	M/R Blade track and balance not carried out at this visit.											
The maintenance recorded has been carried out in accordance with the requirements of New Zealand Civil Aviation Rule Part 43 and in respect of that maintenance the aircraft / component is released to service.													
Name	S M.Grainger	Sign											
Amel #	24612	Date	17/05/2010										

Central Aero Engineering Ltd Miscellaneous Work Sheet & Loose Leaf Log Entry

CAE 2 rev 1

Aero Engineering

DATE	11/12/2009	TYPE	R44 RAV1	REG	1HBT	HRS	304.8	JOB #	1120	SHEETS	
ENGINEER NAME	P Waterhouse	SIGN	<i>[Signature]</i>	INITIALS						AMEL #	21299
ENGINEER NAME	S M.Grainger	SIGN	<i>[Signature]</i>	INITIALS						AMEL #	24612
ENGINEER NAME		SIGN		INITIALS						AMEL #	

ITEM #	WORK REQUIRED	WORK CARRIED OUT	INITIALS
1	300hr airframe and engine inspection due.	Airframe inspection carried out IAW Robinson R44 m/m schedule . Engine inspection carried out IAW Lycoming O-540 Operators and Maintenance manual. Oil filter replaced P/N AA48108-2 8 Qts Phillips 100aw oil.	<i>[Signature]</i>
2	24 month avionics inspection due DCA/Rad/35B due	24 Month avionics insps c/o, transponder fails test. Xponder repaired 24 mth cert attached. DCA/Rad/35B c/o found satis.	<i>[Signature]</i>
3	Transponder found to be outside limits on test.	Transponder repaired via SPA returned & refitted on SPA Fm1 62553	<i>[Signature]</i>
4	24 month ELT inspection due.	24 mth ELT test & insp C/O IAW Kannad M/M. Satis refitted ref Cert attached	<i>[Signature]</i>
5	Annuals inspection due.	Annual inspections C/O, First Aid kit satis.	<i>[Signature]</i>
6	Chip plugs manual inspection due	Ann Chip plugs insps c/o, found satis, refitted.	<i>[Signature]</i>
7	Hydraulic filter replacement required.	Hydraulic filter changed Pn AN6235-1A Rn 3996. Hyd fluid topped up as required.	<i>[Signature]</i>
8	SB 57 Tail pipe inspection due.	SB 57 Tail pipe insp c/o, found satis.	<i>[Signature]</i>
9	Helipod inspection due	Helipods insps c/o IAW ICA, condition satis.	<i>[Signature]</i>
10	Annual Review of Airworthiness due	ARA C/O ref certification attached.	<i>[Signature]</i>
11	Install Fuel hose Kit KI194	Kit KI 194 installed IAW instructions. Flow check satis. W & Bal ammended.	<i>[Signature]</i>

The maintenance recorded has been carried out in accordance with the requirements of New Zealand Civil Aviation Rule Part 43 and in respect of that maintenance the aircraft / component is released to service. Na

Name	Waterhouse	Sign	<i>[Signature]</i>	Amel #	21299	Date	9/12/2009
------	------------	------	--------------------	--------	-------	------	-----------

SECTION 1 SERVICE RECORD

Installed in Aircraft ZK- <u>ABT</u>		At Airframe Hours: <u>00</u>			At Tacho Reading:	Date <u>22-10-07</u>	Position <u>ⓔ</u>
Date	Daily Hrs Flown	Total Time Since New	Total Time Since O/H	Cycle Recording	Unserviceability Log - Details of unserviceability and required inspections		
Totals brought forward							
<u>8-12-09</u>		<u>304.8</u>			<div style="display: flex; justify-content: space-between;"> <div style="width: 80%;"> <p><u>100HR.</u></p> </div> <div style="width: 15%; text-align: right;"> <p><u>2</u> Loose Leaf Log Entry attached</p> <p>In <u>1120</u> Date <u>9-12-09</u></p> <p>Name <u>Michael</u> No. <u>21295</u></p> </div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 80%;"> <p><u>1</u> Loose Leaf Log Entry attached</p> <p>In <u>1183</u> Date <u>11-2-2010</u></p> <p>Name <u>Michael</u> No. <u>21612</u></p> </div> <div style="width: 15%; text-align: right;"> <p><u>50</u> hr inspection due</p> <p><u>353.5</u></p> </div> </div>		
Totals carry forward		<u>304.8</u>					

SECTION 1 SERVICE RECORD

Installed in Aircraft ZK- <i>ABJ</i>		At Airframe Hours: <i>00</i>			At Tacho Reading:	Date <i>22-10-07</i>	Position <i>A.</i>
Date	Daily Hrs Flown	Total Time Since New	Total Time Since O/H	Cycle Recording	Unserviceability Log - Details of unserviceability and required inspections		
Totals brought forward							
<i>3-5-09</i>	<i>53-1</i>	<i>203.4</i>			<i>100hr engine inspection due</i> <div style="text-align: right; margin-top: 10px;"><i>1x loose log entry</i></div>		
Totals carry forward	<i>53-1</i>	<i>203.4</i>					



POSTAL ADDRESS: RD2, HAMILTON, NEW ZEALAND

FORM: AM/GEN/331
ISSUE: 4
PAGE: 1 of 2**ENGINE BULKSTRIP CERTIFICATE**

Engine Make: LYCOMING	Model No: O-540-F1B5	Serial No: L-6776-40E	Job No: O6305
-----------------------	----------------------	-----------------------	---------------

A bulkstrip has been carried out on the above engine in accordance with Aeromotive Ltd Schedule Ref: AM/LYC/200

For a detailed list of parts used and Release Notes refer to work records under Job No. ENG/08/004

For Airworthiness Directives status refer sheets in back of Log Book.

MAJOR REWORK ITEMS:

REBUSH BOTH COUNTERWEIGHTS. "FIELDAIR" RELEASE CERT. NO. 11514, B/N BE501, REFERS.

MAJOR PARTS RENEWED:

Qty	Part No	Description	History	Qty	Part No	Description	History
2	16R22291-P05	GUIDE	NEW	12	75061	BOLT	NEW
4	18D23135	BEARING	NEW	12	LW-12186	NUT	NEW
2	70416	ROLLER	NEW	8	LW-14820	RING	NEW
1	71569-1	SEAL & GASKET SET	NEW	1	LW-18481	GASKET	NEW
4	73810	BUSHING	NEW	1	STD-2247	SCREW	NEW

Mandatory renewal of parts has been carried out. Details of oversizes are as follows:

PISTON RINGS: STANDARD

CRANKSHAFT BEARINGS: STANDARD

TEST BED RECORD:

AIR TEMP: 27.1°C	F/T RPM: 2680	MAP: 28.0"HG	FUEL PRESS. M -
PUMP: -	FUEL FLOW: 106 lbs/hr	OIL PRESS: 85 psi	OIL TEMP: 82°C
OIL CONSUM. 0.15 Qts/hr	MAGNETO ADV. 25 deg.	MAG. DROP RPM: 2000	LH MAG DROP: 1970
RH MAG. DROP: 1970			

ACCESSORY RECORD = Refer work records for release notes

Item	Type	S/N	History	Item	Type	S/N	History
Magneto LH	E08GA060R	BL-600616-3	500 HR INSPECTION	Governor	N/F	-	-
Magneto RH	E07FA189	10-600646-201	500 HR INSPECTION	Fuel Pump	N/F	-	-
Starter	BG315-100-2	0907120928	REFIT	Carburettor	10-6035-11	75C86204	REFIT
Gen / Alt	N/F	-	-	Flow Divider	N/A	-	-
Ign Harness	SLICK	-	REFIT	Oil Cooler	N/F	-	-

Central Aero Engineering Ltd Miscellaneous Work Sheet & Loose Leaf Log Entry CAE 2 rev 1

DATE	19/02/2009	TYPE	R44	REG	HBT	HRS	163	JOB #	746	SHEETS	1 OF 1
ENGINEER NAME	S M.Grainger	SIGN	<i>[Signature]</i>	INITIALS					AMEL #	24612	
ENGINEER NAME	P Waterhouse	SIGN	<i>[Signature]</i>	INITIALS					AMEL #	21299	
ENGINEER NAME		SIGN		INITIALS					AMEL #		
ITEM #	WORK REQUIRED			WORK CARRIED OUT							INITIALS
1	Helicopter reported to have over speed rotor system up 113%			Main rotor and tail rotor dynamic balance checked and r no adjustment required							<i>[Signature]</i>
	Helicopter required to have overspeed inspection carried iaw R44 M/M chap 2.540			Main rotor blades removed front from M/R hub assembly .Inspection carried on the condition of blade assemblies.Nil Faults found.							<i>[Signature]</i>
				Oil drained from m/r pitch bearings and bearing condition checked.Nil faults found .							<i>[Signature]</i>
				Pitch bearings refilled iaw R44 m/m chap 9.115.							<i>[Signature]</i>
				Main rotor hub bolts mpi carried out r/n 30216 Aeromotive.							<i>[Signature]</i>
				Main rotor blades refitted to hub assy iaw R44 m/m 9.112 1-15							<i>[Signature]</i>
				Visual inspection carried out on the tail rotor blades nil fault found.							<i>[Signature]</i>
				Run out check carried out on tailrotor drive shaft .iaw m/m 7.340.Runout within allowable limits of 0.025 [Act 0...005"]							<i>[Signature]</i>
2	Engine to be removed for bulkstrip as per calculations determined in part c			Engine removed from airframe and reinstalled post bulkstrip iaw R44 m/m 6.110.							<i>[Signature]</i>
				Ground run carried out post installation .Nil faults or leaks noted post engine run.							<i>[Signature]</i>
				Flight test carried and the following figures recorded:							<i>[Signature]</i>
				90 knots,MP 21.5,Eng rpm 103%,Oil temp 180 c ,CHT 350,OIL px 100 psi							
				Mag drop 50/50 ,Rotor rpm 103							
				For duplicates see log book entry							<i>[Signature]</i>

The maintenance recorded has been carried out in accordance with the requirements of New Zealand Civil Aviation Rule Part 43 and in respect of that maintenance the aircraft / component is released to service *[Signature]* No

Name | P Waterhouse | Sign | *[Signature]* | Amel # | 21299 | Date | 19/02/2009

FROM CENTRAL AERO ENGINEERING
 * CABLE TO MAINTENANCE DEPT.
 * UPDTE SWAS PLATE TO BLADE TIPS

We certify that a duplicate safety inspection has been carried out and the identified control system of the aircraft / component functions correctly and, in respect of the maintenance performed, the control system is assembled and locked correctly.

1st part Name Paul Waterhouse
 Signed *[Signature]*
 2nd part Name S.M. GRAINGER
 Signed *[Signature]*
 Date 19-2-09

No AMEL/IA - 21299
 SAC - 1028 GNZ - 3338
 No 24612.

CENTRAL AERO ENGINEERING MISCELLANEOUS WORK SHEET

CAE 2 rev 1

DATE	8/10/2008	TYPE	R44R	REG	HBT	HRS	100.1	JOB #	606	SHEETS	1
ENGINEER NAME	Waterhouse	SIGN		INITIALS						AMEL #	21299
ENGINEER NAME	Grainger	SIGN		INITIALS						AMEL #	24612
ENGINEER NAME		SIGN		INITIALS						AMEL #	

ITEM #	WORK REQUIRED	WORK CARRIED OUT	INITIALS
1	First 100 hr insp due	First 100 hr insp c/o IAW R44 M/M.	W
2	Transmission oil changes due	Transmission oil changes c/o IAW R44M/M oil replenished with A257-2 Rn 225111	W
3	Chip plugs clean	Chip plugs inspected & cleaned & refitted	W
4	SB 388 C valve clearances required	SB 388C c/o all valve clearances found satisfactory, valve gear reassembled.	W
5	Air filter change req	Air filter changed Pn C771-1 RnHP0692	Smg
6	Oil filter change req	Oil filter insp c/o satis new filter Pn AA48108 Rn HAS2114	W
7	Oil change due	Oil drained & replenished with W100+ Rn 12664	W
8	A/H install required	Castleberry A/H installed Pn 504-0006-954 Sn 208605745 Rn SPA 12709 installed IAW R44 M/M & IPC, W& Bal changes made & updated in FM & logs Functional test c/o operation satis.	W
9	Install Helipods	L & R helipods installed IAW STC6/21E/11 Rn Helipod 3519. W & bal updated in FM & logs.	Smg
10	Ground run C/o	T/R chip light on, chip det checked satis refitted. Run c/o satis.	W
11	Hover check c/o	Hover check 21.5", 1005Mb, 110psi op, 170*f ot, 275*f CHT, 10A, 15*c Satis	W

The maintenance recorded has been carried out in accordance with the requirements of New Zealand Civil Aviation Rule Part 43 and in respect of that maintenance the aircraft / component is released to service.

Name	Waterhouse	Sign		Amel #	21299	Date	30/09/2008 8-10-08 W
------	------------	------	--	--------	-------	------	----------------------

p. Waterhouse

Central Aero Engineering

CENTRAL AERO ENGINEERING MISCELLANEOUS WORK SHEET

CAE 2 rev 1

DATE	26/11/2008	TYPE	R44	REG	HBT	HRS	124.4	JOB #	657	SHEETS	1 OF 1	
ENGINEER NAME	Grainger	SIGN	<i>[Signature]</i>					INITIALS	<i>smg</i>		AMEL #	24612
ENGINEER NAME	Verryt	SIGN						INITIALS			AMEL #	
ENGINEER NAME	Waterhouse	SIGN						INITIALS			AMEL #	21299
ITEM #	WORK REQUIRED						WORK CARRIED OUT					INITIALS
1	Helicopter carried out emergency decent into paddock.						Both engine magnetos removed and found l/h magneto distributor gear bushing severely worn allowing the distributor gear to untine it's self.					
	Engine running rough, Shut down and unable to be restarted.						l/h magneto p/n 10-600616-3 s/n E06ka036 off r/h magneto p/n 10-600646-201 s/n EO7FA189 OFF					
							Exchange l/h magneto installed p/n BL-600616-3 s/n E08GA060R R/N 3114 Helifite Drive dog removed from u/s magneto and torque to new magneto 20-25 ft/lbs and locked. Magneto timed to 20 tdc. Some difficulty was encountered on timing new magneto to engine					
							R/h magneto reinstalled p/n 10-600616-201 s/n E067FA189 and timed to 20 tdc.					<i>smg</i>
							Ground run carried out ,r/h magneto had rough running when selected. All plugs feed by r/h magneto removed and inspected .Lower plug on cylinder no#4 found to have short across electrode.					<i>smg</i>
							New plug installed p/n REM 38E r/n 1384 HAS. Remainder of plugs reinstalled and torqued, leads refitted. Ground run carried and magneto drop checked at 75/50					<i>smg</i>
							All removed side cowls reinstalled and check flight carried out					<i>smg</i>

The maintenance recorded has been carried out in accordance with the requirements of New Zealand Civil Aviation Rule Part 43 and in respect of that maintenance the aircraft / component is released to service.

Name	S. Grainger	Sign	<i>[Signature]</i>	Amel #	24612	Date	26/11/2008
------	-------------	------	--------------------	--------	-------	------	------------

ENGINE LEADING PARTICULARS

Manufacturer: LYCOMING

Country of Origin UNITED STATES OF AMERICA

Type:

Model/Series: O-540-F1B5

Part Number:

Serial Number: L-26776-40E

Date of Manufacture: 17th August 2007

Date When First Entered Service: 22nd October 2007

TCDS E-295

OWNERSHIP

OWNER

Name:

Address:

Nationality:

OWNER

Name:

Address:

Nationality:

VOLUME <u>ONE</u>
DATE OPENED <u>9.1.08</u>
DATE CLOSED <u>5.11.15</u>