



AIRFRAME MAINTENANCE RECORD

Torrance, California 90505, USA

Phone

SECTION 1

HELICOPTER DESCRIPTION

Helicopter Serial Number	Registration Number	Model	Date of Manufacture
3810	N7521Z	R22 Beta II	April 2005

Registered Owner: <u>Veracity Aviation LLC</u>	Operator: _____	<u>Inspection Status</u>
Street Address: _____	Street Address: _____	☐ Annual/100-Hour
City, State, Zip: <u>Seguin, TX, 78155</u>	City, State, Zip: _____	☐ Progressive
Postal Code: _____	Postal Code: _____	☐ Other: _____
Country: _____	Country: _____	Date Entered: _____

Registered Owner: _____	Operator: _____	<u>Inspection Status</u>
Street Address: _____	Street Address: _____	☐ Annual/100-Hour
City, State, Zip: _____	City, State, Zip: _____	☐ Progressive
Postal Code: _____	Postal Code: _____	☐ Other: _____
Country: _____	Country: _____	Date Entered: _____

Registered Owner: _____	Operator: _____	<u>Inspection Status</u>
Street Address: _____	Street Address: _____	☐ Annual/100-Hour
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Country: _____	Country: _____	Date Entered: _____



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SECTION 2

INSTALLED EQUIPMENT

Helicopter Serial Number 3810	Registration Number N7521Z	Model R22 Beta II	Date of Manufacture April 2005
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SECTION 3

MAJOR ALTERATIONS

Helicopter Serial Number 3810	Registration Number N7521Z	Model R22 Beta II	Date of Manufacture April 2005
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SECTION 4

LIFE-LIMITED PARTS OR OVERHAUL REQUIREMENTS

Helicopter Serial Number 3810	Registration Number N7521Z	Model R22 Beta II	Date of Manufacture April 2005
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Part Name	Part Number	Serial Number	Time on Helicopter at Installation	Time on Part at Installation	Life-Limit or TBO	Time on Helicopter at Removal	Authorization
MRGB	A006-6	3721	5959.1 HOURS	0.0	2200 TBO	HOURS	SIGN
			10/11/2024 DATE			DATE	CERT
MR Blade	A016-6	7289	5959.1	0.0	2200 Life		
			10/11/2024				
MR Blade	A016-6	7274	5959.1	0.0	2200 Life		
			10/11/2024				
MR Swashplate	A017-2	6701	5959.1	0.0	2200 TBO		
			10/11/2024				
Welded Frame	A020-90	0228	5959.1	2200	4400 Life		
			10/11/2024				
TR Gearbox	B021-1	4304	5959.1	0.0	2200 TBO		
			10/11/2024				
Tailcone Assembly	A023-23	7173	5959.1	1559.1	4400 Life		
			10/11/2024				
TR Blade	A029-2	12787	5959.1	0.0	2200 Life		
			10/11/2024				
TR Blade	A029-2	12778	5959.1	0.0	2200 Life		
			10/11/2024				
TR Hub	A062-2	8050	5959.1	0.0	2200 Life		
			10/11/2024				
TR Pitch Control	A031-1	10329	5959.1	0.0	2200 Life		
			10/11/2024				
Dual Tachometer	A792-5	A23-13767	5959.1	0.0	2200 Life		
			10/11/2024				
Welded Frame	A046-2	6549	5959.1	2200	4400 Life		
			10/11/2024				
Actuator	A051-1	6700	5959.1	0.0	2200 TBO		
			10/11/2024				
MR Hub	B370-1	1402	5959.1	0.0	2200 Life		
			10/11/2024				



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LIFE-LIMITED PARTS OR OVERHAUL REQUIREMENTS

Helicopter Serial Number 3810	Registration Number N7521Z	Model R22 Beat II	Date of Manufacture April 2005
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AIRWORTHINESS DIRECTIVES AND SERVICE BULLETINS

[illegible]



Torrance, California 90505, USA

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AIRWORTHINESS DIRECTIVES AND SERVICE BULLETINS

[illegible]



Torrance, California 90505, USA

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RADIO AND ELECTRONIC CHECKS

SECTION 7 RADIO AND ELECTRONIC CHECKS



AIRFRAME MAINTENANCE RECORD

Torrance, California 90505, USA

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SECTION 8
SCHEDULED INSPECTIONS

Helicopter Serial Number 3810	Registration Number N7521Z	Model R22 Beta II	Date of Manufacture April 2005
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Date of Completion	Helicopter Time in Service	RECORD OF INSPECTION TYPE & SCOPE, DISCREPANCIES FOUND, & AIRWORTHINESS STATUS (CFR 43.11 & 91.409)	Signature and Certificate Number
		Registration #: N7521Z	SIGN
		Make: Robinson	CERT
		Model: R22 Beta II	
		Serial: 3810	
		Seguin, TX, 78155	
		ACTT: 5959.10	
		MX Meter: 0.0	
		WO#: WO401	
		Completed R22 2200hr inspection per R22 MM 2.600. Installed overhauled engine O-360-J2A SN: L-40959-36E per R22 MM 6.120. For details see engine logbook entry dated 8-13-2024. Horizontal and vertical stabilizers were removed and inspected per R22 MM 2.600. Landing gear struts, steel tube frames, cyclic stick, A650 fittings and A121 push-pull tubes were NDT, performed by Cardinal NDT RS RU7R547N Lab Control # CNDT-24-0177 per R22 MM 23-41 and 23-42. Installed new forward and aft landing gear cross tubes PN: A241-3 and new skid tubes PNs: A242-3 and A242-4. Installed KI-218-1B Full Throttle caution light kit. Installed KI-2206D Interior kit. Removed Aspen unit from helicopter and reverted console back to seven-hole configuration. For a complete list of installed equipment see Section 2 of this logbook. Inspected airframe wiring per R22 MM 2.600. For a complete list of installed TBO components see Section 4 of this logbook. Inspected fuel bladder tanks per R22 MM 2.600. Repaired damaged fiberglass on scroll assemblies and C/W R22 SB-112, painted per R22 MM 23-60. Preformed sheave alignment per R22 MM 7.230. Preformed main rotor and tail rotor control and blade angle rigging per R22 MM 10.110 thru 10.140. Preformed 100/ANNUAL inspection per R22 MM 2.400. Weighted helicopter per R22 MM 18-20, updated weight and balance in POH. Balanced fan to .12 IPS @ 277 deg per R22 MM 6.240. Balanced TR to .10 IPS @ 123 deg per R22 MM 10.240. Tracked and balanced MR to .11 IPS @ 199 deg per R22 MM 10.230. Drained and flushed main and tail rotor gearboxes per R22 MM 22-13 and 22-23. All applicable SB's and AD's have been reviewed and/or complied with at this time. Performed operation and leak checks on all systems with no defects noted.	
		This airframe and/or article identified above has been inspected and/or repaired with the manufacturer or current FAA regulations and are approved for return to service. Pertinent details of this work order are on file at this repair station.	
		Austin Cordova CRS Date: 10/11/24 Signature:	

Engine Maintenance Record

Aircraft Registration Number: N7521Z

Engine Manufacturer: Lycoming

Model: O-360-J2A

Serial Number: L-40959-36E

Date Installed on Aircraft: 10/11/2024

Time Between Overhauls: 2200 hours

AD records

AD Number	SB Name	Last Inspection	Method	Cert	Initial	Recurr.
2017-16-11	Reciprocating Engine Power Section	8/13/2024	NA by Date	3404430AP	KS	NO
2012-19-01	Crankshafts	8/13/2024	NA by SN	3404430AP	KS	NO
2012-03-07	Carburetor	8/13/2024	NA by PN newly OH	3404430AP	KS	NO
2009-26-12	Cylinder assemblies	8/13/2024	NA New Factory Cyl.	3404430AP	KS	YES
2007-04-19R1	SAP cylinder assemblies	8/13/2024	NA New Factory Cyl.	3404430AP	KS	NO
2006-10-21	ECi connecting rods	8/13/2024	NA Factory Parts	3404430AP	KS	NO
2006-12-07	ECi cylinder assemblies	8/13/2024	NA New Factory Cyl.	3404430AP	KS	NO
2004-10-14	Crankshaft gear	8/13/2024	CW per SB 475C	3404430AP	KS	YES
97-15-11	Cylinder kits	8/13/2024	NA by Model	3404430AP	KS	NO
96-09-10	Oil pump	8/13/2024	Inst. Gear PN LW18109	3404430AP	KS	NO
67-01-04	Oil Filters	8/13/2024	CW by MFG	3404430AP	KS	NO
63-22-03	Carburetors	8/13/2024	CW by MFG	3404430AP	KS	NO

The above AD's have been reviewed and/or complied with by the Identified parties

Sign: _____ Date: 8/13/2024

Installed Accessories

Carburator:	PN:	MS116115	SN:	MS116115
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Alternator:	PN:	ALY8520R	SN:	H-T102627
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Starter:	PN:	149-12HT	SN:	H-Y010230
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LH Magneto:	PN:	66K4A3SN-02	SN:	4A-0224019
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RH Magneto:	PN:	10-600644-201	SN:	E10IA225R
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Oil Cooler:	PN:	10614T	SN:	2357
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Date	Meter Reading	Description of work Preformed Signature & Certificate Number of Person Preforming Work
	Engine Model: O-360-J2A	
	ENGTT - 6029.7 ENGTSO - 0.0	
	Engine Serial Number: L-40959-36E	
	1. Disassembled engine in accordance with Lycoming Overhaul Manual Part No. 60294-7. Section: 4-8 through 4-11, 5-1 through 5-20, 6-5 through 6-17, 6-22 through 6-24, 6-43 through 6-55, 7-1 through 7-16, and 8-4 through 8-10.	
	2. Sent engine case halves (Casting# C11B20061-R, Match# TPM256PT), accessory housing (Casting# C21A21515), and oil sump (Casting# LW-13787) to Divco, Inc for inspection and overhaul.	
	3. Sent crankshaft, camshaft, connecting rods, hydraulic tappets, crankshaft gear, idler gears, idler shafts, oil pump gears, oil pump body, and tachometer shaft to Aircraft Specialties Services for inspection and overhaul.	
	4. Sent engine cylinders P.N. LW-13870 (4EA) to Poplar Grove Airmotive, INC for overhaul.	
	5. Cleaned, media blasted and repainted the remaining parts in accordance with OM section: 3-11 through 3-14 (Blasting), and 3-28 through 3-33 (painting).	
	6. Removed and discarded one time use parts in accordance with Lycoming SB 240W.	
	7. Received Case halves (Match# TPM256PT) FAA form 8130-3 dated 02/MAY/2024 Tracking# WDCR136918, Invoice #142178. Accessory housing (Casting# C21A21515) FAA form 8130-3 dated 01/MAY/2024 Tracking# DIV#17208 Invoice #142159. All 8130-3s are on file with Divco, Inc. under these Tracking and invoice numbers. FAA repair station No. DB2R762K Divco, Inc., 28206 N. Sheridan Road, Tulsa OK 74155.	
	8. Received Crankshaft, Camshaft Connecting rods, Lifter bodies, Hydraulic tappets, crankshaft gear, idler gears, idler shafts, oil pump gears, oil pump body, and tachometer shaft from Aircraft Specialties Services) FAA form 8130-3 dated 28/DEC/2021 Tracking# ASI-163573 Invoice #269957, 28/JUN/2024 Tracking# ASI-212895, ASI-212896, ASI-212897, ASI-212898 Invoice #284967, 24/JUL/2024 Tracking# ASI-502493 Invoice #284966, 26/JUL/2024 Tracking# ASI-214482 Invoice #284966, 26/JUL/2024 Tracking# ASI-214481 Invoice #284966. All 8130-3s are on file with Aircraft Specialties services, INC. under these Tracking and invoice numbers. FAA repair station No. DD2R764K Aircraft Specialties services, Inc., 2860 N. Sheridan Road, Tulsa OK 74115.	
	9. Received overhauled engine cylinders P.N. LW-13870 (4EA) from Poplar Grove Airmotive, Inc.	
	10. Installed oversized bearings into case halves P.N. 18A26093-M03 (2EA), 18D26098-M03 (4EA). Installed New O-rings P.N. 72091 (2EA), 72075 (6EA)	
	11. Installed overhauled crankshaft gear P.N. 13S19646 (1EA), New bolt P.N. STD-2213 (1EA) and New lock tab P.N. LW-18639. Bolt was installed with Loctite food grade anti-seize LB 8014. Initial torque 125 in.lbs. Final torque 204 in.lbs. Crankshaft gear was installed IAW Lycoming SB 475C and overhaul manual 7-53.	
	12. Installed connecting rods P.N. LW-11750-S rod bearings P.N. 18D26098-M03, rod bolts P.N. 75061, rod nuts P.N. LW-12186. IAW Lycoming SI 1458G and Overhaul Manual 7-67 through 7-69.	
	13. Replaced roller tappet lifter bodies with NEW P.N. LRT23381	
	14. Lubricated all bearings, crankshaft, camshaft, and lifter bodies IAW Lycoming SI 1059.	
	15. Assembled case halves with Loctite 515 case sealant IAW Lycoming SI 1125.	
	16. Torqued engine short block IAW Lycoming SI 1029 using cylinder plate P.N. ST-222.	
	17. Assembled tach drive with new circlip P.N. STD-2231.	
	18. Assembled oil pump on to accessory housing, torqued as required, and safetied in accordance with Lycoming Overhaul Manual 5-25. Installed block off plates with NEW gaskets P.N. 69551 (1EA), 61183 (1EA), 60096 (1EA). Installed oil filter adapter P.N. D723-1 and NEW Vernatherm P.N. 53E22144 (1EA). Installed New oil temp probe P.N. A760-1 with NEW gasket P.N. 06E19769-63 (1EA). Safetied oil temp probe and vernatherm as required. Installed crank case vent nipple all pipe plugs and oil cooler fittings and torqued IAW Lycoming SSP-1776-17. Installed Accessory housing with NEW gasket P.N. 73818 and torqued to spec.	
	19. Installed oil sump with NEW gasket P.N. LW-13353 and torqued to spec.	
	20. Received (4EA) overhauled cylinders from Poplar Grove Airmotive, Inc. 11619 U.S. Route 76 Poplar Grove, IL 61065 FAA Repair station #YYBR664L (WO# 107173, 107187).	
	21. Installed cylinders and set dry valve lash IAW Lycoming overhaul manual section 6-121 through 6-138 and Service Instruction 1060 U. P.N. CYL KIT (4EA), 15F28835-29 (8EA).	
	22. Installed Crankshaft seal P.N. LW-13792 and sealed with Dow Corning 737 IAW Lycoming Service Instruction 1324 and Overhaul manual section 7-95 through 7-96.	
	I certify that this Lycoming O-360-J2A S/N L-40959-36E has been overhauled in accordance with the Lycoming factory overhaul manual 60294-7-14 and is ready for engine break-in in accordance with Lycoming SI1427C. All applicable AD notes are complied with at time of overhaul. AD list on file.	
	Kevin Steeno	Date: 8/13/2024

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