LOGBOOK No. 2

ENGINE DESCRIPTION

MANUFACTURER Lycoming MODEL O-360-J2A

SERIAL NUMBER L-25261-36A DATE OF MANUFACTURE

RATED BHP RPM MANIFOLD PRESSURE

FUEL REQUIRED OCTANE/PERFORMANCE 100 LL

REGISTERED OWNER

STREET & NO.

CITY, STATE, ZIP

REGISTERED OWNER

STREET & NO.

CITY, STATE, ZIP

R22
ENGINE ACCESSORIES INSTALLED

OIL COOLER	STEWART WARNER	S/N 1918
RIGHT MAGNETO	TCM AIRCRAFT PRODUCTS DIV.	S/N E0SEA148R
LEFT MAGNETO	TCM AIRCRAFT PRODUCTS DIV.	S/N E0SDA245R
ALTERNATOR	KELLY AEROSPACE	S/N F051778
STARTER	B & C SPECIALTY PRODUCTS	S/N 0793000705
CARBURETOR	PRECISION AIRMOTIVE IP SBR	S/N 75064809

AIRPLANE
ROBINSON R22

INSTALLATION RECORD

AIRPLANE	LOCATION	DATE INSTALLED	TOTAL HOURS AT INSTALLATION	DATE REMOVED	TOTAL HOURS AT REMOVAL	ACENCY CERT. NO.
ROBINSON R22	S/N 3396	3-2-06	3613.3			ROBINSON HELICOPTER CO. REPAIR STATION [redacted]

CE RECORD

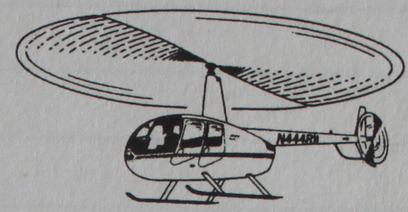
GNATURE
TE NO.

INSPECTION & MAINTENANCE RECORD

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



ROBINSON HELICOPTER CO.
2901 AIRPORT DRIVE
TORRANCE, CA 90505
USA



This engine has been overhauled in accordance with the applicable manufacturer's Overhaul Manual and other FAA-approved procedures. Applicable Federal Aviation Administration Airworthiness Directives have been complied with. All parts have been inspected and accessories are either new or newly overhauled. This certifies that the work specified, except as otherwise specified, was performed in accordance with current FAA Airworthiness Regulations and EASA Part 145 and, in respect to that work, the engine is considered ready for release to service.

Engine Model: O-360-J2A

Serial Number: L-25261-36A

Total Time: 3617.6 Hours

Repair Order: 42643

Date: 7 April 2006

Authorized Signature [redacted]

Robinson Helicopter Company

FAA-Certificated Repair Station [redacted]

EASA Certificate [redacted]

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
4-12-06	3617.6	This engine was installed in Robinson R22 S/N 3396 after overhaul. The compression was: No.1 75/80 No.2 76/80 No.3 75/80 No.4 78/80 The engine was inspected and flight checked I.A.W. the requirements for an annual inspection. AD's through Bi-weekly issue 2006-07 have been complied with. Details are on file at Robinson Helicopter Co. 2901 Airport Drive, Torrance, CA 90505 Under Work Order No. 48111. FAA CRS Repair Station [redacted] Authorized Signature: MARTIN P. SCHNEID [redacted]
TBOH:	4.3	

DATE

INSPECTION & MAINTENANCE RECORD

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

4-7-14
MODEL: 0-360-J2A
S/N: L-25261-36A
TACH READING:
TTE: 5813.8
TSMO: 0.0

AIRCRAFT ENGINE SPECIALISTS, LLC
[redacted]
CHANDLER, ARIZONA 85286
[redacted]

Disassembled engine, cleaned, inspected, non-destructive tested wo N0983-14-02,, overhauled, assembled and test run in accordance with Lycoming Overhaul Manual 60294-7-14 and appropriate service bulletins. Camshaft repaired wo 47895. Lifter bodies repaired wo 223550. Crankshaft pn 13B27143, sn i 32911. Carburetor overhauled wo F1017-14-01. Magneto S4LSC-204T, 10-600644-201, sn E04DA107R overhauled wo M1853-14-02. Magneto S4LSC-200, 10-600614-1, sn E04DA066R overhauled wo M18545-14-02. Cylinders overhauled, new exhaust valves, guides, rings, piston pins. Honed bores and size rings, wo C5707-14-02. All new seals, gaskets, bearings, bushings, connecting rod bolts, nuts, spark plugs, ignition harness. AD's were checked for compliance, see AD sheet. Engine test run and was found in airworthy condition. Further details of this engine overhaul may be found at this facility under work order E5042-14-02.

[redacted] James Volkel

Parts Used on WO# E5042-14-02

1	68759	TUBE ASSY	1	STD-2168	NUT	4	SLR75906	GASKETS
1	68760	TUBE ASSY	1	STD-2231	RING	4	ST203	RING SET - STEEL BORE
1	71611	RETAINER	1	STD-2246	SCREW	4	STD-1821	HOSE
1	71629	HOOK	1	STD-783	PLUG	4	STD-2013	SEAL
1	10-5217 OHC	CARB ASSY	1	TC48108	OIL FILTER	8	1102	PLUG
1	10-600614-1 OHC	MAGNETO OHC	2	68761	TUBE ASSY	8	72198	PLUG
1	10-600644-201 OHC	MAGNETO	2	LW-15839	BAFFLE ASSY	8	74637	BUSHING
1	15F19957-36	ROD ASSY	2	SL13884A M03	BEARING	8	31C-12	STUD .3125-18 X 1.50 LONG
1	700-302-1	GASKET	3	LW-31H0.88	BOLT	8	AEL60009	KEEPER
1	CH48108-1	FILTER	4	69603	HOSE ASSY	8	LW-15592-5-05	CLAMP
1	LW-11754 OHC	CAMSHAFT	4	18D26096 M03	BEARINGS	8	MS13997-3	KEY
1	LW-15970	TUBE	4	AEL19001	VALVE,EXHAUST	8	QS100M28H	CLAMP
1	M2402	HARNESS	4	LW-12892	THRUST BUTTON	8	REM38E	SPARK PLUG
1	SL1028-B	BALL-CHROME ALLOY	4	LW-13790	SHAFT	8	SL11485	TUBE, SHROUD (360)
1	SL53E19600	VERNATHERM VALVE	4	LW-14078	PIN PISTON	8	SL12186	NUT
1	SL61084	SPRING (360)	4	MS21318-21	SCREW	8	SL13521A M03	BEARING
1	SL75439-1	GASKET SET	4	MS27215-2	PLUG, DEHYDRATOR	8	SL75061	ROD BOLT
1	SL77808	VALVE ASSY OIL PRESS. (360)	4	SL12892	THRUST BUTTON			
1	SL-STD-1211	PLUG	4	SL74230A	GUIDE			

-END-

FAA - PMA

This tag certifies that Sky-Tec Model No. **149-12HT**
Serial No. **H2C-251401** was manufactured new on 26 Jun 2014
by Sky-Tec under the authority of FAA-PMA No. PQ0852SW
Supplement No. **1** in accordance with Sky-Tec's
FAA-Approved Quality System (14CFR Part 21, Subpart K).
This article has been determined to be airworthy.
For installation eligibility see *www.skytecair.com/eligibility.htm*
Starter Installed on **N** 29DD (Aircraft) by [redacted] AP (Mechanic) 3/10/15
[redacted]

Form CC1108-1

ENANCE RECORD

ON OR MAINTENANCE PERFORMED
GENCY & CERTIFICATE NO.

EEL BORE

X 1.50 LONG

(360)

[redacted]
Glendale, AZ 85307
[redacted]

11 Mar 2015 N29DD S/N 3396 Hobbs: 2200.5 ACTT: 4398.8 SMOH: 2200.5
ENG o-360-J2A S/N: L-25261-36A SMOH: 0.0 ETT: 5813.8
C/W Lycoming SI 1009 by establishing TBO at ETT: ~~8013.8~~ (2200 hrs).

Andre Vargas [redacted]

INSPECTION & MAINTENANCE RECORD

DATE | TOTAL

GOLD COAST GCH HELICOPTERS

[redacted]

Glendale, AZ 85307

[redacted]

11 Mar 2015 N292DD S/N 3396 Hobbs: 2200.5 ACTT: 4398.8 SMOH: 2200.5
ENG o-360-J2A S/N: L-25261-36A SMOH: 0.0 ETT: 5813.8

Removed engine and re-installed after overhaul (see Aircraft Engine Specialists FAA form 8130-3 w/o number E5042-14-02 dated 07 Apr 2014) in aircraft reg #N292DD serial number 3396 IAW Robinson mm section 6.100. Shimmed IAW Robinson mm section 6.130. Performed an annual inspection using Robinson R22 MM and Lycoming Operators Manual as a guide Ground ran and operation and leak checked good. Adjusted idle speed IAW Robinson SL-10.
Airworthiness Directives checked through bi-weekly TDATA 2015-04 and FAA website.
I certify that this engine has been inspected IAW an annual inspection and was determined to be in an airworthy condition.

[redacted]

Gerald P McClendon A&P [redacted]

10 Dec 2015 N292DD S/N 3396 Hobbs: 2251.9 ACTT: 4450.2 SMOH: 2251.9
ENG o-360-J2A S/N: L-25261-36A SMOH: 51.4

Performed 50 hour inspection and maintenance items IAW manufacturer's checklist and service instruction 1080C. Drained oil, replaced filter, serviced engine with 6 qts. Aeroshell 100 Plus. Cleaned bottom spark plugs.

Michael L. Davidson [redacted]

INSPECTION & MAINTENANCE RECORD

DAT

INSPECTION OR MAINTENANCE PERFORMED

20 May 2016 N292DD S/N 3396 Hobbs: 2300.5 ACTT: 4500.5 SMOH: 100.5

ENG o-360-J2A S/N: L-25261-36A SMOH: 100.5

Performed Annual inspection IAW Lycoming Maintenance manual. Drained oil, removed, opened and inspected oil filter. Installed new oil filter and serviced engine with 6 qts Aeroshell 100 plus. Replaced crankshaft seal. Replaced alternator belt with new. Performed compression test readings as follows: 1-72, 2-73, 3-72, 4-60. Mag timing checked.
AD's researched thru 2016-08. No AD's due at this time.
I certify this engine to be in an airworthy condition at the time of inspection.

Michael L. Davidson [redacted] [redacted]

27 Jan. 2017 N292DD S/N 3396 Hobbs: 2400.2 ACTT: 4600.2 SMOH: 200.2

ENG o-360-J2A S/N: L-25261-36A SMOH: 100.5

Performed Annual inspection IAW Lycoming Maintenance manual. Drained oil, removed, opened and inspected oil filter. Installed new oil filter and serviced engine with 6 qts Aeroshell 100 plus. Performed compression test readings as follows: 1-76, 2-73, 3-75, 4-74. Mag timing checked.
AD's researched thru 2016-18. No AD's due at this time.
I certify this engine to be in an airworthy condition at the time of inspection.

Michael L. Davidso [redacted] [redacted]

DATE

01 Mar. 2018 N292DD S/N 3396 Hobbs: 2460.1 ACTT: 4600.2 SMOH: 260.1
ENG O-360-J2A S/N: L-25261-36A SMOH: 260.1
Performed Annual inspection IAW Lycoming Maintenance manual. Drained oil, removed, opened and inspected oil filter. Installed new oil filter and serviced engine with 6 qts Aeroshell 100 Plus. Performed compression test readings as follows: 1-76, 2-74, 3-75, 4-74. Mag timing checked.
AD's researched thru Mar 1, 2018. No AD's due at this time.

I certify this engine to be in an airworthy condition at the time of inspection.

Bill Willingham [redacted] A&P [redacted] MAR 1, 2018

01 Apr. 2019 N292DD S/N 3396 Hobbs: 2460.1 ACTT: 4648.5 SMOH: 308.4
ENG O-360-J2A S/N: L-25261-36A SMOH: 308.4
Performed Annual inspection IAW Lycoming Maintenance manual. Drained oil, removed, opened and inspected oil filter. Installed new oil filter and serviced engine with 6 qts Aeroshell 100 Plus. Performed compression test readings as follows: 1-78, 2-78, 3-76, 4-78. Mag timing checked. AD's researched thru Apr 1, 2019. No AD's due at this time.

I certify this engine to be in an airworthy condition at the time of inspection.

Bill Willingham [redacted] A&P [redacted] Apr 1, 2019

01 May 2020 N292DD S/N 3396 Hobbs: 2560.1 ACTT: 4748.5 SMOH: 408.4
ENG O-360-J2A S/N: L-25261-36A SMOH: 408.4
Performed Annual inspection IAW Lycoming Maintenance manual. Drained oil, removed, opened and inspected oil filter. Installed new oil filter and serviced engine with 6 qts Aeroshell 100 Plus. Performed compression test readings as follows: 1-76, 2-78, 3-76, 4-78. Mag timing checked. AD's researched thru May 1, 2020. No AD's due at this time.

I certify this engine to be in an airworthy condition at the time of inspection.

Bill Willingham [redacted] A&P [redacted] May 1, 2020

DATE

Hobbs: 2604.5 TSMOH: 404
S/N: 3396 ENGTT: 6217.8
N292DD
ENG S/N: L-25261-36A
Performed 50hr Engine Insp. I/AW Lycoming Op Manual Sec. 4. Complied w/ SL1080C. Drained engine oil and refilled w/ 6 qts of Phillips

INSPECTION & MAINTENANCE RECORD

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

1?-08-20 N292DD S/N: 3396 Hobbs: 2604.5
EngS/N: L-25261-36A ENGTT: 6217.8 TSMOH: 404

Performed 50hr Engine Insp. I/A/W Lycoming Op Manual Sec. 4. Complied w/ Lyc. SB 480F & SI 1080C. Drained engine oil and refilled w/ 6 qts of Phillips X/C 20w-50. Replaced oil filter w/ new filter P/N: B123-2. Ground run and test flight satisfactory w/ no defects noted. I certify this aircraft has been inspected and found to be in airworthy condition. --END--
Austin Hunziker A&P [redacted]

12-02-20 N292DD S/N: 3396 Hobbs: 2633.0
EngS/N: L-25261-36A ENGTT: 6246.3 TSMOH: ~~401.3~~ 432.5 - mo

Pilot report of rough running engine and loss of power in flight. Upon inspection found #3 Cyl. exhaust pushrod bent. Replaced push rod P/N: 15F19957-35 w/ new push rod same P/N. I/A/W Lyc O/H Man Sec. 6 . Also reamed #3 Cyl Exhaust valve guide I/A/W Lyc. SI 1425A. A/C ground run and test flight satisfactory with no defects noted. Aircraft approved for return to service. -- END-- Matthew Davidson, A&P [redacted]

01-11-21 N292DD S/N: 3396 Hobbs: 2658.4
EngS/N: L-25261-36A ENGTT: 6271.7 TSMOH: ~~500.7~~ 457.9 mo

Performed Annual/100Hr Engine Insp. I/A/W Lycoming Op. Manual Sec. 4. C/W Lycoming SB 366A & SB480FC/W Lycoming SI 1080C, SI 1129D, SI1191A, & SI 1437. Also complied w/ TCM SB 636 & SB 653. Alternator belt tension set @ 8.1 ftlbs. Drained and refilled 6qts of Phillips XC 20w-50. Installed new oil filter P/N: AA48112. Installed new air filter P/N: B771-1. Compressions as follows: #1- 74/80, #2- 68/80, #3-72/80, #4- 70/80. Completed Lyc. SB 388C results as follows: #1-.019", #2- .022", #3- .020", #4-.023". Verified all AD,s complied w/ thru current date. Ground run and test flight satisfactory. I certify this engine has been inspected and found to be in airworthy condition. -- END-- Matthew Davidson, A&P IA [redacted]

CHECKED OR COMPLIED WITH THE FO
AIRWORTHINESS DIRECTIVES AND TH
SERVICE BULLETIN
BENDIX/TCM 2
METHOD O

Rev	Airworthiness Directive/ Service Bulletin	
	74-26-09 Drive B	
	82-	

INSPECTION & MAINTENANCE RECORD

TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.

05-01-2021 **N292DD** **S/N: 3396** **Hobbs: 2675.4**
Eng S/N: L-25261-36A **ENGTT: 6378.7** **TSMOH: 564.9**

Performed 100Hr Engine Insp. I/A/W Lycoming Op. Manual Sec. 4. C/W Lycoming SB 366A & SB480F C/W Lycoming SI 1080C, SI 1129D, SI1191A, & SI 1437. Also complied w/ TCM SB 636 & SB 653. Removed magnetos P/N: 10-600644-201, S/N: E04DA107R; & P/N: 10-600614-1, S/N: E04DA066R in order to comply w/ 500Hr Magneto Insp. Installed magnetos P/N: BL-600644-201, S/N: E14CA167R; & P/N: BL-600614-1, S/N: E16GA307R (TSO:0.0) IAW Lyc. O/H Man. Sec. 4. Alternator belt tension set @ 8.1 ftlbs. Drained and refilled 6qts of Phillips XC 20w-50. Installed new oil filter P/N: AA48112. Installed new air filter P/N: B771-1. Compressions as follows: #1- 72/80, #2- 71/80, #3-68/80, #4- 69/80. Ground run and test flight satisfactory. I certify this engine has been inspected and found to be in airworthy condition. .-- END--
Matthew Davidson, A&P [redacted]

05-24-21 **N292DD** **S/N: 3396** **Hobbs: 2809.4**
EngS/N: L-25261-36A **ENGTT: 6378.7** **TSMOH: 698.9**

Performed 50hr Engine Insp. I/A/W Lycoming Op Manual Sec. 4. Complied w/ Lyc. SB 480F & SI 1080C. Drained engine oil and refilled w/ 6 qts of Phillips X/C 20w-50. Replaced oil filter w/ new filter P/N: B123-2. Ground run and test flight satisfactory w/ no defects noted. I certify this aircraft has been inspected and found to be in airworthy condition. END--
Matthew Davidson; A&P [redacted]

06-25-2021 **N292DD** **S/N: 3396** **Hobbs: 2850.9**
Eng S/N: L-25261-36A **ENGTT: 6464.2** **TSMOH: 650.4**

Performed 100Hr Engine Insp. I/A/W Lycoming Op. Manual Sec. 4. C/W Lycoming SB 366A & SB480F C/W Lycoming SI 1080C, SI 1129D, SI1191A, & SI 1437. Also complied w/ TCM SB 636 & SB 653. Alternator belt tension set @ 7.5 ftlbs. Drained and refilled 6qts of Phillips XC 20w-50. Installed new oil filter P/N: AA48112. Installed new air filter P/N: B771-1. Compressions as follows: #1- 79/80, #2- 78/80, #3-64/80, #4- 62/80. Ground run and test flight satisfactory. I certify this engine has been inspected and found to be in airworthy condition. .-- END--
Austin Hunziker; A&P [redacted]

INS

DATE	TOTAL TIME	