

ENGINE LOG
EF5-1

LOGBOOK N° 4

ENGINE DESCRIPTION

MANUFACTURER TEXTRON LYCOMING MODEL O-320-B2C

SERIAL NUMBER L-15949-39A DATE OF MANUFACTURE OCT 28, 1989

RATED BHP 160 RPM 2700 MANIFOLD PRESSURE _____

FUEL REQUIRED OCTANE/PERFORMANCE 100 OR 100 LL

REGISTERED OWNER _____

STREET & NO. _____

CITY, STATE, ZIP _____

REGISTERED OWNER _____

STREET & NO. _____

CITY, STATE, ZIP _____

12-10-93

R22

ENGINE ACCESSORIES INSTALLED

Oil Cooler	Niagara P/N 20008A	S/N <u>F90-5987-363</u>
Right Magneto	Bendix/TCM M/N S4LN-204 S4LSC-204	S/N <u>F309318E</u>
Left Magneto	Bendix/TCM M/N S4LN-200 S4LSC-200	S/N <u>F309304E</u>
Alternator	Prestolite M/N ALY-8420LS	S/N <u>3051330</u>
Starter	B & C Products P/N BC-315-100-2	S/N <u>0391000311</u>
Carburetor	Precision (Facet) P/N 10-5217	S/N <u>75022422</u>

14214710

[illegible]

COMPLIANCE RECORD

A.D./BULL. NUMBER	ITEM AFFECTED	DATE & HRS. AT COMP.	METHOD OF COMPLIANCE	TYPE OF A.D. 1 TIME/RECUR.	NEXT COMP. DATE/HRS./CYCLE	AUTHORIZED SIGNATURE CERTIFICATE NO.
SB-388B	VALVE STEM CLR.	11-8-93 2508.4	OVERHAULED ENGINE	RECUR	2808.4	ROBINSON HELICOPTER CO REPAIR STATION [REDACTED]
SB-480	OIL CHANGE	11-8-93 2508.4	CHANGED OIL-AEROSHELL 80	RECUR	2533.4	ROBINSON HELICOPTER CO REPAIR STATION [REDACTED]
A.D. 93-18-03	CARB VENTURI	11-8-93 2508.4	NEW P.A.C. CARB. S/N 75022422 INST.	1-TIME	N/A	ROBINSON HELICOPTER CO REPAIR STATION [REDACTED]
A.D. 93-19-04	CARB FLOAT	11-8-93 2508.4	NEW P.A.C. CARB. S/N 75022422 INST.	1-TIME	N/A	ROBINSON HELICOPTER CO REPAIR STATION [REDACTED]
94-14-13	LOW OIL DETENTION		SEE 95-26-02			
95-26-02	LOW OIL DETENTION	7/24/96 3099.8	N/A BY REC. NUMBER	1-TIME		
96-09-10	OIL PUMPS					
94-01-03	MAGNETS		N/A BY SERIAL NUMBER			
97-01-03	PISTON PINS	6/2/97 3380.0	N/A BY OH DATE NO REPLACEMENT	1-TIME		
98-02-08	CARBURETOR	7/2/98 3380.0	N/A TURBO			
98-17-11	NELSON BRAND CARB.	7/2/99 3380.0	N/A NOT INSTALLED			

INSPECTION & MAINTENANCE RECORD

DATE

TOTAL
TIME

INSPECTION OR MAINTENANCE PERFORMED
AGENCY & CERTIFICATE NO.

TEXTRON Lycoming

Williamsport Plant

Textron Lycoming/Subsidiary of Textron Inc.

Williamsport, PA 17701 U.S.A.

This engine has been overhauled/rebuilt in accordance with the applicable Textron Lycoming Overhaul Manual. All Federal Aviation Administration Airworthiness Directives and Textron Lycoming Service Bulletins have been complied with. All parts have been inspected and have been determined airworthy to return to service. All accessories as part of the type certificate are either new or newly overhauled. Refer to enclosed Form ET001 for applicable accessory part numbers and serial numbers.

Engine Model: 0-320-B2C
Serial #: L-15949-39A
Date: 08/25/93
Total Time: 2508.4
Work Order #: A-3246

Signed _____
Textron Lycoming Service Center
Williamsport/Lycoming Co. Airport
Montoursville, PA 17754
Repair Station: _____

Form No. 365

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
DEC 10, 1993	HOBBS: 2006.3	THIS ENGINE WAS INSTALLED IN A ROBINSON R22
		AFTER OVERHAUL. THE COMPRESSION WAS:
AIRFRAME TT: 2006.3		N ^o 1: $\frac{78}{80}$; N ^o 2: $\frac{77}{80}$; N ^o 3: $\frac{76}{80}$; N ^o 4: $\frac{76}{80}$. THE
ENGINE TT: 2515.0		ENGINE WAS INSPECTED AND FLIGHT CHECKED
ENGINE TSOH: 6.6		IN ACCORDANCE WITH THE REQUIREMENTS FOR
		AN ANNUAL INSPECTION. ADS THROUGH ISSUE
		93-23 AND LYCOMING SBs THROUGH 510
		(SUPPLEMENT N ^o 1) HAVE BEEN COMPLIED WITH.
		SEE PAGE 5 OF THIS LOGBOOK. DETAILS ARE
		ON FILE AT ROBINSON HELICOPTER CO., [REDACTED]
		[REDACTED], TORRANCE, CA 90505 UNDER
		WORK ORDER 9186. FAA REPAIR STATION
		[REDACTED]. AUTHORIZED SIGNATURE:
		[REDACTED]

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
01-25-94	HOBBS 2053.4	CHANGED OIL, CLEANED & REINSTALLED OIL SCREEN. USED 6 QTS. AEROSHELL 15W-50. [REDACTED]
3-27-94	2106.3	CHANGED OIL - USED 6 QTS AEROSHELL 15W50. INSPECTED, CLEANED & REINSTALLED FUEL & OIL SCREENS. CLEANED, INSPECTED, REGAPPED, TESTED & REINSTALLED SPARK PLUGS. REPLACED CARB. AIR FILTER. COMPLIED WITH AD 94-06-09, CAPACITOR LOT NUMBERS CHECKED GOOD. REINSTALLED & RETIMED MAGNETOS. ALL COMPRESSIONS 72/80 OR ABOVE. I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100HR. INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. INSPECTION ACCOMPLISHED IN ACCORDANCE WITH LYCOMING SERVICE MANUAL. [REDACTED]
5-8-94	HOBBS: 2157.4	CHANGED OIL - SERVICED WITH 6 QTS AEROSHELL 15W50 [REDACTED]

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
JUNE 7, '94	HOBBS 2205.1	CHANGED OIL, CLEANED SCREEN. SERVICED WITH 6 QTS. AEROSHELL "W" 15W-50 OIL. REPLACED SPARK PLUGS WITH CHAMPION REM37BY UNITS. REPLACED CARB AIR FILTER. ALL COMPRESSION ABOVE 74/80. RUNUP LEAK CHECKED O.K. [REDACTED] [REDACTED]
8-25-94	HOBBS 2236.5	ENG TT 2745.2 TSMO 236.80 DRAINED OIL FOR ENGINE REMOVAL. REMOVED & REINSTALLED ENGINE FOR INSPECTION OF ENGINE MOUNTS & CRANK. SERVICED WITH 6 QTS 15-50 AEROSHELL OIL. GROUND RUN SATISFACTORY - NO LEAKS NOTED. THE <u>ENGINE</u> IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FEDERAL AVIATION ADMINISTRATION AND IS APPROVED FOR RETURN TO SERVICE. REFERENCE WORK ORDER <u>3863</u> [REDACTED] JET AVIATION/BOSTON [REDACTED]
10-7-94	HOBBS 2286.5	CHANGED OIL SERVICED WITH 6 QTS AEROSHELL 15W50 [REDACTED]

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
10-15-94	HOBBS 2303.3	CHANGED OIL - USED 6 QTS AEROSHELL 15W50. INSPECTED, CLEANED & REINSTALLED FUEL & OIL SCREENS. CLEANED, INSPECTED, REGAPPED, TESTED & REINSTALLED SPARK PLUGS. MAGNETO TIMING CHECKED GOOD. REPLACED CARB AIR FILTER. ALL COMPRESSIONS 72/80 OR ABOVE. RUN-UP & LEAK CHECK O.K.
11/11/94	2352.8	CHANGED OIL - USED 6 QTS AEROSHELL 15W50.
06-29-95	2702.7 HOBBS	CHANGED OIL, USED 6 QTS. AEROSHELL 15W-50. REPLACED ALL SPARK PLUGS 3204.8 T.T. WITH NEW CHAMPION REM37BY UNITS. REPLACED AIR FILTER. MAGNETO TIMING 696.4 S.F.O.H. RESET TO 25° BTC BOTH SIDES. COMPRESSION: #1-72, #2-73, #3-68, #4-72/80. GROUND RUN + HOVER CKS OK, NO LEAKS.

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
12/6/94	2402.9	OIL CHANGED. 6 QTS AEROSHELL 15W-50. STRAINER CLEANED, CLEANED AND GAPPED SPARK PLUGS. TIMING CHECK OK. COMPRESSOR CHECK #1 75/80 #2 74/80 #3 69/80 #4 77/80. REPLACED AIR FILTER PER AD 84-26-02. RUN UP CHECK OK. I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HOUR/ ANNUAL INSPECTION AND WAS DETERMINED TO BE AIRWORTHY. / s/ [REDACTED]
12/31/94	2454.0	OIL changed - 6 QTS Aeroshell 15-50 [REDACTED] [REDACTED]

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
2/16/95	2503.3	OIL CHANGED. 6 QTS AEROSHELL 15W-50. STRAINER
SMOH	503.6	CLEANED. CLEANED AND GAPPED SPARK PLUGS, TIMING
		CHECK OK. COMPRESSION CHECK #1 72/80 #2 72/80 #3 69/80,
		#4 75/80. REPLACED AIR FILTER PER AD 84-26-02. SECURED
		LOOSE OIL FILLER TUBE. I CERTIFY THAT THIS ENGINE
		HAS BEEN INSPECTED IN ACCORDANCE WITH A100 AND ANNUAL
		INSPECTION AND WAS DETERMINED TO BE AIR WORTH
		[REDACTED]
		[REDACTED]
3/18/95	2554.9	Oil Change - 6 QTS AEROSHELL 15-50
		[REDACTED]
4-11-95	2603.6	OIL CHANGE, USED 6 QTS. AEROSHELL "W" 15W-50. CLEANED + INSPECTED
		SCREEN, CLEANED, REGAPPED, INSPECTED + REINSTALLED SPARK PLUGS.
		COMPRESSION: #1, 72/80; #2, 72/80; #3, 68/80; #4, 74/80. ADJUSTED IDLE,
		ADJUSTED ALTERNATOR BELT TENSION. [REDACTED]
5-20-95	2655.0	CHANGED OIL SERVICED WITH 6 QT AEROSHELL 15W50
		[REDACTED]

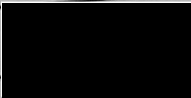
INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
7-31-95	Hobbs: 2755.7	Changed oil serviced w/AEROSHELL 15W50 6 Qts [REDACTED]
9/1/95 Smart	2802.7 803.0	OIL CHANGED, 6 QTS AEROSHELL 15W-50. STRAINERS CLEANED. CLEANED AND GAPPED SPARK PLUGS. TIMING CHECK OK. (COMPRESSION CHECK #1 74/80 #2 78/80 #3 75/80 #4 76/80 TIGHTENED LOOSE ALTERNATOR MOUNT BOLTS. IRIS & CLEANED AIR FILTER PER AD 84-76-02. REPLACEMENT DUE 3702.7. RAN UP CHECK OF IDERD FT. THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HOUR ANNUAL INSPECTION AND WAS DETERMINED TO BE AIRWORTHY. NO OUTSTANDING AD'S. [REDACTED] [REDACTED]
10-8-95	HOBBS 2852.3	CHANGED OIL SERVICED W/AEROSHELL 15W-50 6 QTS [REDACTED]

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
12/7/95 SAHCH	2901.3 901.6	OIL CHANGED. AEROSHELL 15W-50. STRAINER CLEANED. CLEANED AND GAPPED SPARK PLUGS. TIMING CHECK OK. COMPRESSION CHECK #1 76/80, #2 78/80, #3 74/80, #4 76/80. INSPECTION CLEAN AIR FILTER PER AD 84-26-02. RUN UP CHECK OK DORSEY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE AIRWORTHY. [REDACTED]
12/28/95	2953.8	CHANGED OIL SERVICED W/ AEROSHELL 15W50 6QTS [REDACTED]

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
5/2/96	2599.1	OIL CHANGED. 6 QT Aeroshell 15W50. CLEANED AND
SMOH	999.4	GAPPED SPARK PLUGS. COMPRESSION CHECK $\frac{71}{80}$, $\frac{75}{80}$
		#3 $\frac{73}{80}$, #4 $\frac{74}{80}$. INSPECTED AIR FILTER PER AD 84-26-02.
		I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE AIRCRAFT.
		 
5-16-96	Hobbs 3049.4	CHANGED OIL SERVICED W/ 6 QTS Aeroshell 15W50.  

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
7/24/96	HRS 3099.8 SMDH 1100.1	OIL CHANGED. LOTS AEROSHELL 15W50. C18A185 ADID GAPPED SPARK PLUGS. TIMING CHECK OK. COMPRESS CHECK #1 74/80 #2 78/80 #3 72/80 #4 78/80. INSPECTED AIR FILTER PER AD 84-70-02, SECURED LOOSE OIL FILLER TUBE. AD 95-70-02 N/A BY REGISTRATION NUMBER. AD 96-05-10 PARAGRAPH "C" APPLIES. RUN UP CHECK OK
		I CERTIFY THAT THIS HAS BEEN INSPECTED IN ACCORDANCE WITH A INSPECTION AND WAS DETERMINED TO BE AIRWORTHY.
		SIGNED: A/P SUPERIOR AERO SERVICES, INC.
8/22/96	HRS 3155.2	CHANGED OIL SERVICED W/ 6 QTS AEROSHELL 15W50

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
9/26/96	3199.2	OIL CHANGED. 6 QTS AEROSHELL 15W50. STRAINER CLEANED. CLEANED AND GAPPED SPARK PLUGS. TIMING CHECK OK. COMPRESSION CHECK #1 74/80 #2 74/80 #3 70/80 #4 75/80. REPLACED CRANKSHAFT OIL SEAL. AIR FILTER IN SP PER AD 84-2602. REINSPECT 3299.2. REPLACE 3302.7. RUN UP CHECK OK, SEE FRONT OF LOG. FOR AD LISTING. I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE AIRWORTHY.
9/28/96	3202.8	CHANGED AIRFILTER (REPLACED)
11/03/96	3252.4	CHANGED OIL SERVICED W/ 5QTS AEROSHELL 15W50

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
12/18/96	3274.6	REPLACED BOTH POINT SETS IN LEFT MANGRO. REPLACED PRIMARY POINTS IN RIGHT MANGRO. CLEANED LOWER SPARK PLUGS. RUN UP CHECK OK [REDACTED] [REDACTED]

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
6/3/97	TACH 3301.5 SMALL 1301.8	Oil changed. Spark plug cleaned. 6 or Aerosolized. Replaced both magnetos. Cleaned and capped spark plugs. Compression checked #1 7/8, #2 7/8, #3 7/8, #4 7/8. Installed new air filter per AD 84-26-02. See front of log for AD. List of Ref. Put up check OK. I CERTIFY THAT THIS HAS BEEN INSPECTED IN ACCORDANCE WITH A WAS DETERMINED TO BE AIRWORTHY. SIGNED: [REDACTED] A/P [REDACTED] SUPERIOR AERO SERVICES, INC.

INSPECTION & MAINTENANCE RECORD

DATE

TOTAL
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AGENCY & CERTIFICATE NO.

6/2/98 1341.3

OIL CHANGED. STRAINER CLEANED. CABLES AND
GAPPED SPARK PLUGS. TIMING CHECK OK
COMPRESSION CHECK #1 77/80 #2 77/85 #3 76/80 #4 75/100
SHIMMED OIL PRESSURE RELIEF UP 1 AD 960-10. (REPLACED)
VALVE COVER GASKETS. SEE FRONT OF LOG FOR AD LISTING.
CLEAN & INSP AIR FILTERS. RUN UP OK.

I CERTIFY THAT THIS Cessna

HAS BEEN INSPECTED IN ACCORDANCE WITH A

..... INSPECTION AND
WAS DETERMINED TO BE AIRWORTHY.

SIGNED

A/P

SUPERIOR AERO SERVICES, INC.

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
7/2/89	3380.0	Oil CHANGED. AEROSHELL R.O.O. STAMPER CHANGED
5mo it	1380.3	CLEANED AND GAPPED SPARK PLUGS. TIMING
		CHECK OK. COMPRESSION CHECK #1 78/80 #2 77/80 #3 78/80
		#4 78/80. SEE FRONT OF LOG FOR AD LISTING.
		I CERTIFY THAT THIS <u>Engine</u>
		HAS BEEN INSPECTED IN ACCORDANCE WITH A
		<u>General</u> INSPECTION AND
		WAS DETERMINED TO BE AIRWORTHY.
		SIGNED <u>[Redacted Signature]</u>
		A/P <u>[Redacted Signature]</u>
		SUPERIOR AERO SERVICES, INC.

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
7/20/2000	3404.1	OIL CHANGED, AEROSOL RW-50, CLEANED AND
S/MOA	1404.4	GAPPED SPARK PLUGS TIMING CHECK OK COMPRESSOR
		CHECK #1 74/80, #2 74/80, #3 77/80, #4 74/80. SEE FRONT OF
		LOG FOR AD LISTING. RUDOP CHECK OK.
		I CERTIFY THAT THIS <i>[Signature]</i> HAS BEEN INSPECTED IN ACCORDANCE WITH A <i>[Signature]</i> INSPECTION AND WAS DETERMINED TO BE AIRWORTHY.
		SIGNED <i>[Redacted Signature]</i>
		A/P <i>[Redacted Signature]</i>
		SUPERIOR AERO SERVICES, INC.

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
3/2/01	3415.8	OIL CHANGED, AEROSHELL 15W-50, STRAINER CLEANED
SMOIT	1416.4	CLEANED AND GAPPED SPARK PLUGS, TIMING CHECKED
		COMPRESSION CHECK #1 80/80, #2 77/80, #3 75/80, #4 79/80, INSTALLED
		E-Z HANE H41 OILSUMP HEATER, SEE FRONT OF LOG
		FOR AD LISTING, RUN UP CHECK OK.
		I CERTIFY THAT THIS <i>Cessna</i>
		HAS BEEN INSPECTED IN ACCORDANCE WITH A
		<i>Cessna</i> INSPECTION AND
		WAS DETERMINED TO BE AIRWORTHY. <i>A</i>
		SIGNED: [REDACTED]
		A/P [REDACTED]
		SUPERIOR AERO SERVICES, INC.

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
9/5/02	3434.0	OIL CHANGED. AEROSHEC 30-50 STRAINER CLEANED.
5moH	1424.6	REPLACED AIR FILTER PER AD 84-26-02. CLEANED AND
		BARRIC SPARK PLUGS. TIMING CHECK OK. COMPRESSOR /
		CHECK #1 78/80 #2 78/80 #3 76/80 #4 75/80. RUN UP CHECK OK.
		I CERTIFY THAT THIS <i>[Signature]</i>
		HAS BEEN INSPECTED IN ACCORDANCE WITH A
		<i>[Signature]</i> INSPECTION AND
		WAS DETERMINED TO BE AIRWORTHY.
		SIGNED: <i>[Signature]</i>
		A/P <i>[Signature]</i>
		SUPERIOR AERO SERVICES, INC.

INSPECTION & MAINTENANCE RECORD

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10/10/03	3449.7	OIL CHANGED. AEROSHELL 15W-50. STRAINER CLEANED
3MOH	1440.3	CLEANED AND GAPPED SPARK PLUGS, TIMING CHECK
		OK. COMPRESSION CHECK #1 78/80 #2 77/80 #3 77/80 #4 74/80
		SEE FRONT OF LOG FOR AD LISTING. RUN UP OK.
		CERTIFY THAT THIS <i>[Signature]</i> HAS BEEN INSPECTED IN ACCORDANCE WITH A <i>[Signature]</i> INSPECTION AND WAS DETERMINED TO BE AIRWORTHY.
		SIGNED: <i>[Redacted Signature]</i>
		A/P <i>[Redacted Signature]</i>
		SUPERIOR AERO SERVICES, INC.

this
side

INSPECTION & MAINTENANCE RECORD

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