

AIRCRAFT MAINTENANCE RECORDS

Owner _____

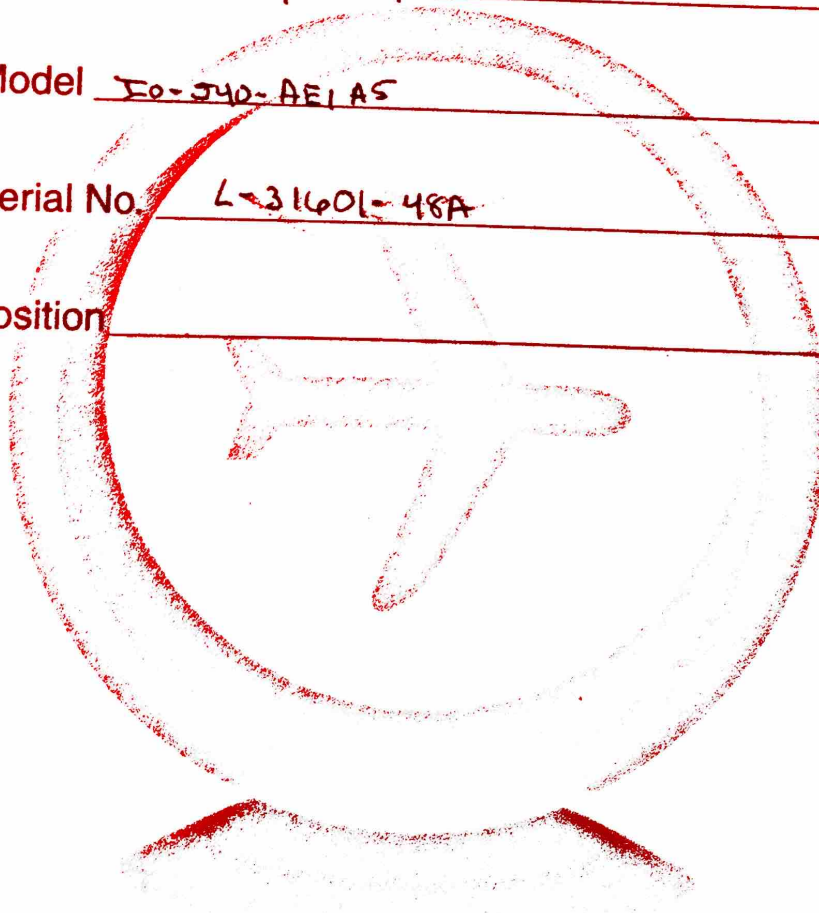
Aircraft Registration **N** _____

Manufacturer Lycoming _____

Model IO-540-AE1A5 _____

Serial No. L-31601-48A _____

Position _____



AIRCRAFT MAINTENANCE RECORD

Page No.

R44 II

ENGINE ACCESSORIES INSTALLED

OIL COOLER	STEWART WARNER	S/N 3084
OIL COOLER (SMALL)	STEWART WARNER	S/N 573
RIGHT MAGNETO	TCM AIRCRAFT PRODUCTS DIV.	S/N E06FA140
LEFT MAGNETO	TCM AIRCRAFT PRODUCTS DIV.	S/N E06DA136
ALTERNATOR	KELLY AEROSPACE	S/N G031591
STARTER	B & C SPECIALTY PRODUCTS	S/N 0306240372
FUEL CONTROL	PRECISION AIRMOTIVE	S/N 72HA5501 70810000

IP SBR

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TOTAL - CARRY FORWARD TO NEXT PAGE

AIRCRAFT MAINTENANCE RECORD

Page No. _____

1 OF WORK PERFORMED
NUMBER OF PERSON PERFORMING WORK

wo: WO2017-0024 ROBINSON ENGINE MAINTENANCE/INSPECTION page 1 of 1

Cedar Ridge Aviation - P.O. Box 37 - Knox City, Texas 79528 - 315-486-4482

N212JB LYCOMING, IO-540-AE1A5, S/N: L-31601-48A June 28, 2018

Hobbs: 1708.8 TTSN: 1708.8 SMOH: 1708.8

1. ENGINE 100 HOUR INSPECTION, COMPLETED PER LYCOMING O-540 OPERATORS MANUAL. Installed (8) Aeroshell w100 Plus - Aeroshell w100 Plus, Installed (1) AM48100-2 - OIL FILTER.

2. SB 388C, NO DEFECTS NOTED.

THIS ENGINE AND OR ARTICLE HAS BEEN INSPECTED OR REPAIRED IN ACCORDANCE WITH THE CURRENT MANUFACTURES MAINTENANCE PROCEDURES AND FEDERAL AVIATION REGULATIONS AND IS DETERMINED TO BE IN AN AIRWORTHY CONDITION. Details of work performed are on file with Cedar Ridge Aviation under work order: WO2017-0024.

Rob Hagen A&P 3685340 *Rob Hagen*

wo: WO2018-0037 ROBINSON ENGINE MAINTENANCE/INSPECTION page 1 of 1

Cedar Ridge Aviation - P.O. Box 37 - Knox City, Texas 79528 - 315-486-4482

N212JB LYCOMING, IO-540-AE1A5, S/N: L-31601-48A August 8, 2018

Hobbs: 1885.0 TTSN: 1885.0 SMOH: 1885.0

REMOVED AND REPLACED #2 CYL WITH NEW CYLINDERS PER LYCOMING IO-540 MM SECTION 5-4 (PN:05K21120). THIS ENGINE AND OR ARTICLE HAS BEEN INSPECTED OR REPAIRED IN ACCORDANCE WITH THE CURRENT MANUFACTURES MAINTENANCE PROCEDURES AND FEDERAL AVIATION REGULATIONS AND IS DETERMINED TO BE IN AN AIRWORTHY CONDITION. Details of work performed are on file with Cedar Ridge Aviation under work order: WO2018-0037.

Gus Korzekwa A & P 3929689

wo: WO2017-0029 ROBINSON ENGINE MAINTENANCE/INSPECTION page 1 of 1

Cedar Ridge Aviation - P.O. Box 37 - Knox City, Texas 79528 - 315-486-4482

N212JB LYCOMING, IO-540-AE1A5, S/N: L-31601-48A July 10, 2018

Hobbs: 1735.6 TTSN: 1735.6 SMOH: 1735.6

1. PERFORMED 100 HOUR INSPECTION PER LYCOMING IO-540 OPERATORS MANUAL SECTION 4-5.

THIS ENGINE AND OR ARTICLE HAS BEEN INSPECTED OR REPAIRED IN ACCORDANCE WITH THE CURRENT MANUFACTURES MAINTENANCE PROCEDURES AND FEDERAL AVIATION REGULATIONS AND IS DETERMINED TO BE IN AN AIRWORTHY CONDITION. Details of work performed are on file with Cedar Ridge Aviation under work order: WO2017-0029.

Gus Korzekwa A & P 3929689

wo: WO2018-0038 ROBINSON ENGINE MAINTENANCE/INSPECTION page 1 of 1

Cedar Ridge Aviation - P.O. Box 37 - Knox City, Texas 79528 - 315-486-4482

N212JB LYCOMING, IO-540-AE1A5, S/N: L-31601-48A August 2, 2018

Hobbs: 1898.0 TTSN: 1898.0 SMOH: 1898.0

1. 100 HOUR INSPECTION, COMPLETED PER LYCOMING OPERATORS MANUAL O-540 SECTION 4-5.

THIS ENGINE AND OR ARTICLE HAS BEEN INSPECTED OR REPAIRED IN ACCORDANCE WITH THE CURRENT MANUFACTURES MAINTENANCE PROCEDURES AND FEDERAL AVIATION REGULATIONS AND IS DETERMINED TO BE IN AN AIRWORTHY CONDITION. Details of work performed are on file with Cedar Ridge Aviation under work order: WO2018-0038.

Gus Korzekwa A & P 3929689

Removed Engine
See Engine Log
Book From
N315T FOR Future RECORDS
SN / 11317
Installed 6/25/19

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AIRCRAFT MAINTENANCE RECORD

Page No. _____

Date	Total Time	DESCRIPTION OF WORK PERFORMED SIGNATURE & CERTIFICATE NUMBER OF PERSON PERFORMING WORK
CARRIED FORWARD →	2126-3	

ROPIC AIRPOWER

Quality Aircraft Engine Overhaul
FAA Overhaul Repair Station T7KR187Y
20600 SW Citrus Blvd
Indiantown, Florida
Ph 561-964-8770

www.tropicairpower.com

Date November 23, 2022, Work Order# 1642 Engine; Lycoming IO-540-AE1A5 S/N L-31601-48A. This Engine/Power Plant is zero time "SINCE" overhaul-rebuild to new limits. Engine TT Continuing. Engine has been test run successfully, is airworthy and approved for return to service. Eligibility is TBV by the installer. Details of work on record at this repair station. Major Overhaul of Engine: Crankshaft/counterweights o/hailed std/std. Rods, Rocker Arms O/Hauled (A.S.S). Crankcase o/hailed with new cylinder studs (Divco). New Lycoming Camshaft and lifter bodies. New Main/Rod bearings. New Lycoming cylinder Assemblies. New rocker shaft/thrust washers. New Rod bolts/nuts. New hardware throughout. New Thru-Studs. All new; gaskets, seals and locking devices. New Drain back Tubes/hoses, clamps, magneto cushion rubbers. Magnetos rebuilt (TCM) New, New Horizon Ignition Harness and sparkplugs. New Crankshaft Gear & bolt. New Fuel Pump. Fuel Servo, Flow Divider, Injectors o/h (D/G). New inter-cylinder baffeling. All parts cleaned Inspected-NDT. New oil pressure spring and ball. New Vernatherm. Overhauled B/C 24V Starter. New oil sump BAFFEL. New 67542 magneto bearings in crankcase. Engine test run with Philips Mineral 20w50 oil and Cortec 329. Oil filter cut open after test run, clean. New no blow exhaust gaskets with RHC hardware. **"OIL DRAINED FROM ENGINE"** New oil filter installed. All engine open ports plugged/covered. Two new Oil coolers. **NO OIL IN ENGINE!**

Mark You Admin. *[Signature]*

wo: WO_20

Engine - page 1 of 1



Viking Aviation Maintenance - 1740 Entrance Dr - New Braunfels, TX 78130 - 9105467328

N163RK
ACTT: 5466.4
ETT: 0.0

Lycoming IO-540-AE1A5, S/N: L-31601-48A
Collective Hobbs: 5466.4

April 20, 2023

Removed engine PN:IO-540-AE1A5 SN:L-30194-48A and installed engine PN:IO-540-AE1A5 SN:L31601-48A. Performed break-in procedure IAW Lycoming MM. Performed operational flight with no discrepancies.

I certify that this powerplant has been inspected per approved maintenance publications, it is in airworthy condition, and is approved for return to service IAW CFR Far part 43. Details of work performed are on file with Viking Aviation Maintenance under work order: WO_20.

Michael Chaloupka AP/IA 3607269 *[Signature]*

wo: WO_42

Engine - page 1 of 1



Viking Aviation Maintenance - 1740 Entrance Dr - New Braunfels, TX 78130 - 9105467328

N163RK
Collective Hobbs: 5488.2

Lycoming IO-540-AE1A5, S/N: L-31601-48A

May 23, 2023





1. Complied with Engine 100 hour inspection IAW Lycoming MM.
2. Complied with SB480 Oil and Filter Change.
3. Complied with compression check #1-80, #2-80, #3-80, #4 78, #5-80, #6-80, the compression checked good.
4. Performed magneto timing RH-1 1/2 teeth, LH-1 tooth Ret-1 tooth.
5. Complied with SB388/SB301 exhaust valve guide wobble check with the following results #1- .015, #2-.018, #3-.014, #4-.015, #5-.018, #6-.016.

I certify that this powerplant has been inspected per approved maintenance publications, it is in airworthy condition, and is approved for return to service IAW CFR Far part 43. Details of work performed are on file with Viking Aviation Maintenance under work order: WO_42.

Michael Chaloupka AP/IA 3607269 *[Signature]*

AIRCRAFT MAINTENANCE RECORD

Page No. _____

Date	Total Time	DESCRIPTION OF WORK PERFORMED SIGNATURE & CERTIFICATE NUMBER OF PERSON PERFORMING WORK
CARRIED FORWARD →	wo: WO_96	 Viking Aviation Maintenance · 1740 Entrance Dr · New Braunfels, TX 78130 · 9105467328 N163RK Lycoming IO-540-AE1A5, S/N: L-31601-48A May 23, 2023 Collective Hobbs: 5513.2 Drained, reserviced engine oil with Aeroshell 100+ and removed and replaced engine oil filter with new Temest AA48110-2 filter. Pulled and checked suction screen with no discrepancies. I certify that this powerplant has been inspected per approved maintenance publications, it is in airworthy condition, and is approved for return to service IAW CFR Far part 43. Details of work performed are on file with Viking Aviation Maintenance under work order: WO_96. 
	wo: WO_88	 Viking Aviation Maintenance · 1740 Entrance Dr · New Braunfels, TX 78130 · 9105467328 N163RK Lycoming IO-540-AE1A5, S/N: L-31601-48A April 19, 2023 Collective Hobbs: 5563.0 Drained, reserviced engine oil with Aeroshell 100+ and removed and replaced engine oil filter with new Temest AA48110-2 filter. Pulled and checked suction screen with no discrepancies. I certify that this powerplant has been inspected per approved maintenance publications, it is in airworthy condition, and is approved for return to service IAW CFR Far part 43. Details of work performed are on file with Viking Aviation Maintenance under work order: WO_88.  Michael Chaloupka AP/IA 3607269

VIKING AVIATION MAINTENANCE LLC.



14Jun23 Registration N163RK Make: Lycoming Model: IO-540-AE1A5 SN: L-31601- 48A
 Coll. Hobbs:5590.1

Performed 100 Engine Hour Inspection IAW RHC 22 M/M, section 2.400 and Lycoming Operators Manual Section 4 and 5.

1. C/W Lycoming SI 1080C. No defects noted.
2. C/W Lycoming SB480F. Drained oil and serviced with 6 quarts of Aeroshell 100+. Inspected oil filter and suction screen with no defects noted.
3. C/W Lycoming SI1129B. Checked alternator belt tension.
4. C/W Lycoming SI1191A. Compression checks are as follows: #1: 78/80, #2 74/80, #3 72/80, #4 71/80, #5 71/80, #6 76/80. All within limits.
5. C/W Lycoming SB366C. Performed visual inspection of carburetor. No leaks/defects noted.
6. C/W Lycoming SB388 for first 100 hour from overhaul IAW Lycoming SB no defects noted.
7. C/W TCM 643B. No defects noted.
8. Removed, cleaned, inspected, tested and reinstalled 8 spark plugs.
9. C/W RHC SL62. Removed cleaned and reinstalled air filter.
10. All RHC and Lycoming interval maintenance has been complied with at this time per R22 M/M Table 1 of section 1.101 and Lycoming Operators Manual Sections 4 and 5.
11. All applicable AD's and SB's have been reviewed and/or complied with at this time.
12. Performed operational and leak checks on all systems with no defects noted.

I certify that this Engine has been inspected per Robinson/Lycoming 100 hour inspection, is in airworthy condition and is approved for return to service.

Michael Chaloupka  3607269AP

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Robinson R44 II

AD#	Subject	Amdt #	Eff Date	Recurring
✓ 94-17-18	Superseded By 94-26-10			
✓ 94-26-10	Cyclic Control System	39-9105	01/11/95	
✓ 03-24-51 E	Swashplate Bolts		11/28/03	
✓ 07-11-01	Seat Belt Buckle Assembly	39-15058	06/27/07	
✓ 07-26-12	Superseded By 11-12-10			
✓ 10-24-03	Tail Rotor Control Pedal Bearing Block	39-16521	12/29/10	
✓ 11-12-10	Superseded By 14-23-16			
✓ 13-05-15	Emergency Float Inflation Valve Assembly	39-17387	04/30/13	
✓ 14-23-16	Main Rotor Blade Debonding	39-18032	01/09/15	Yes*
✓ 16-26-04	Main Rotor Blade Fatigue Crack	39-18762	02/08/17	
✓ 19-12-18	Superseded By 20-18-08			
20-05-11	STC SR00286BO Simplex Model 244 Spray System	39-19863	04/16/20	Yes*
✓ 20-08-10	Tail Rotor Blade Cracks	39-19902	05/22/20	Yes
✓ 20-18-08	Orange Silicone Engine Air Induction Hose	39-21229	08/27/20	Yes
✓ 21-19-08	Superseded By 22-19-12			
✓ 22-12-08	RPM Sensor Wiring	39-22080	06/29/22	
✓ 22-19-12	Tail Rotor Blade Cracks	39-22181	10/20/22	Yes

M O APTA 3607269

1. Approving National Aviation Authority/Country: FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG				3. Form Tracking Number: Invoice # 31397-3	
4. Organization Name and Address: D & G Supply 1916 Industrial Drive Niles, MI 49120 Telephone: 800-446-8160		#NK2R034L		5. Work Order/Contract/Invoice Number: Work Order # 45038			
6. Item: 3	7. Description: Nozzle	8. Part Number: 2524864-2	9. Quantity: 6	10. Serial/Batch Number: N/A	11. Status/Work: CLEANED & TESTED		
12. Remarks: Inspection Report # 65037 prescribing the actual work performed is attached. The prescribed work was performed in accordance with FAA approved data.							
13a. Certifies the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 13.				14a. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in Block 12 Certifies that unless otherwise specified in block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.			
13b. Authorized Signature:		13c. Approval/Authorization No.:		14b. Authorized Signature: Russell Romey		14c. Approval/Certificate No.: NK2R034L	
13d. Name (Typed or Printed):		13e. Date (dd/mm/yyyy):		14d. Name (Typed or Printed): RUSSELL ROMEY		14e. Date (dd/mm/yyyy): 10 OCT 2023	
User/Installer Responsibilities							
<p>It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.</p> <p>Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.</p> <p>Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.</p>							

FAA Form 8130-3 (02-14)

NSN: 0052-00-012-9005

1. Approving National Aviation Authority/Country: FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG				3. Form Tracking Number: Invoice # 31397-2	
4. Organization Name and Address: D & G Supply 1916 Industrial Drive Niles, MI 49120 Telephone: 800-446-8160		#NK2R034L		5. Work Order/Contract/Invoice Number: Work Order # 45038			
6. Item: 2	7. Description: Flow divider	8. Part Number: 2576526-1	9. Quantity: 1	10. Serial/Batch Number: ABX9010	11. Status/Work: overhauled		
12. Remarks: Inspection Report # 65038 prescribing the actual work performed is attached. The prescribed work was performed in accordance with FAA approved data.							
13a. Certifies the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 13.				14a. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in Block 12 Certifies that unless otherwise specified in block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.			
13b. Authorized Signature:		13c. Approval/Authorization No.:		14b. Authorized Signature: Russell Romey		14c. Approval/Certificate No.: NK2R034L	
13d. Name (Typed or Printed):		13e. Date (dd/mm/yyyy):		14d. Name (Typed or Printed): RUSSELL ROMEY		14e. Date (dd/mm/yyyy): 10 OCT 2023	
User/Installer Responsibilities							
<p>It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.</p> <p>Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.</p> <p>Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.</p>							

FAA Form 8130-3 (02-14)

NSN: 0052-00-012-9005

1. Approving National Aviation Authority/Country: FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG				3. Form Tracking Number: Invoice # 31397-1	
4. Organization Name and Address: D & G Supply 1916 Industrial Drive Niles, MI 49120 Telephone: 800-446-8160		#NK2R034L		5. Work Order/Contract/Invoice Number: Work Order # 45038			
6. Item: 1	7. Description: Servo	8. Part Number: 2576630-4	9. Quantity: 1	10. Serial/Batch Number: 70B59705	11. Status/Work: Repaired		
12. Remarks: Inspection Report # 65035 prescribing the actual work performed is attached. The prescribed work was performed in accordance with FAA approved data.							
13a. Certifies the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 13.				14a. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in Block 12 Certifies that unless otherwise specified in block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.			
13b. Authorized Signature:		13c. Approval/Authorization No.:		14b. Authorized Signature: Russell Romey		14c. Approval/Certificate No.: NK2R034L	
13d. Name (Typed or Printed):		13e. Date (dd/mm/yyyy):		14d. Name (Typed or Printed): RUSSELL ROMEY		14e. Date (dd/mm/yyyy): 10 OCT 2023	
User/Installer Responsibilities							
<p>It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.</p> <p>Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.</p> <p>Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.</p>							

FAA Form 8130-3 (02-14)

NSN: 0052-00-012-9005

1. Approving Civil Aviation
Authority/Country:
FAA/UNITED STATES

AUTHORIZED RELEASE CERTIFICATE

FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

3. Form Tracking Number:
140634

4. Organization Name and Address:

Aerotech of Louisville, Inc. 2209 Watterson Trail Louisville, KY 40299

5. Work Order, Contract, or Invoice Number:
W/O: 140634

6. Item	7. Description:	8. Part Number:	9. Quantity	10. Serial Number:	11. Status/Work:
1	HARTZELL ALTERNATOR	ALU-8521-9	1	S/N H-0070439	Overhauled

12. Remarks:

COPY OF WORK ORDER AVAILABLE ON REQUEST FROM AEROTECH OF LOUISVILLE.

CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 11/12 WAS CARRIED OUT IN ACCORDANCE WITH EASA PART 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVAL CERTIFICATE NUMBER 145.6696 AND BY THE FAA AIR AGENCY CERTIFICATE NUMBER PU4R453M APPROVED FOR EXPORT. THE ORIGINAL EQUIP. MFG. DATA APPEARS ON THE I.D. PLATE IN THE LINES IDENTIFIED AS MOD/NO & ORIG. MFG. COMPLIES WITH SGA-1000 REV. 3.05/21/2020
THE FOLLOWING SERVICE BULLETINS & AD NOTES HAVE BEEN COMPLIED WITH OR RESEARCHED AND NOT APPLICABLE

13a. Certifies the items identified above were manufactured in conformity to:

- ☐ Approved design data and are in a condition for safe operation
☐ Non-approved design data specified in Block 12

14a. ☒ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 12

Certifies that unless otherwise specified in block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

13b. Authorized Signature:	13c. Approval/Authorization No.:	14b. Authorized Signature:	14c. Approval/Certificate No.:
13d. Name (Typed or Printed):	13e. Date (dd/mm/yyyy):	14d. Name (Typed or Printed): MIKE EVANS	14e. Date: (dd/mm/yyyy): 03/AUG/2021

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

Aerotech of Louisville Inc.

2209 Watterson Trail

Louisville, KY 40299

FAA Certified Repair Station # PU4R453M

Prestolite SGA-1000 Alternator Maintenance Release

Model 24V 70A Part No. ALU-8521 Serial No. H-0070439
Work Order No. 140634 Technician CHRIS FAJARDO Date 03/AUG/2021

This unit was disassembled, cleaned, inspected, reassembled, and tested in accordance with current manufacturer's overhaul manual specifications and in accordance with current F.A.A. regulations concerning this unit.

The Following Parts Have Been Replaced

(All Other Parts Are Serviceable)

[illegible]

In some instances F.A.A. approved P.M.A. parts are used other than the original manufacturer's

AD Notes

[illegible]

Service Bulletins Complied With

[illegible]

This unit is approved for return to service

Signature

John C Evans

Date 03/AUG/2021

Aviation Data Source, Inc.

The Aviation DataBase

Databases updated November 22, 2022 as of Biweekly 2022-14/25

Manufacturer: Textron Lycoming TC No.: 1E4 Model: IO-540-AE1A5 S/N L-31601-48A

Rec (Yes); Indicates a Recurring AD Number of ADs: 14 TROPIC AIRPOWER WO#1642

AD Number	PDF	Rec	Subject	
<u>2002-17-53 E</u>	<u>PDF</u>	No	Superseded by <u>2002-19-03</u>	*N/A
<u>2002-19-03</u>	<u>PDF</u>	No	Crankshaft failure	
<u>2003-14-03</u>	<u>PDF</u>	Yes	Non-TC Holder - Crane/Lear Romec AN-Type rotary fuel pumps	
<u>2004-05-24</u>	<u>PDF</u>	No	Crankshaft gear retaining bolts	
<u>2004-10-14</u>	<u>PDF</u>	Yes	Prop Strike - crankshaft gear installation	
<u>2006-20-09</u>	<u>PDF</u>	No	Superseded by <u>2012-19-01</u>	
<u>2008-06-51 E</u>	<u>PDF</u>	Yes	Superseded by <u>2008-08-14</u>	
<u>2008-08-14</u>	<u>PDF</u>	Yes	Superseded by <u>2009-02-03</u>	
<u>2008-14-07</u>	<u>PDF</u>	Yes	Superseded by <u>2011-26-04</u>	
<u>2009-02-03</u>	<u>PDF</u>	Yes	Non-TC Holder- Precision Airmotive RSA-5 & RSA-10 series fuel injection servos	
<u>2011-26-04</u>	<u>PDF</u>	Yes	Superseded by <u>2015-19-07</u>	
<u>2012-19-01</u>	<u>PDF</u>	No	Crankshafts	
<u>2015-19-07</u>	<u>PDF</u>	Yes	Externally mounted fuel injector fuel lines	
<u>2017-16-11</u>	<u>PDF</u>	No	Connecting rod small end bushings	

The Following ADs apply to Accessories that *could be* installed on the IO-540-AE1A5 No. of ADs: 2

<u>2005-12-06</u>	<u>PDF</u>	Yes	Revised inspection intervals: magneto riveted & snap-ring impulse coupling assemblies	
<u>2007-04-19 R1</u>	<u>PDF</u>	No	Superior Air Parts Cylinder Assembly removal	*N/A

*N/A=NOT APPLICABLE PER ENGINE MODEL, S/N, P/N, INSPECTION/SB C/W OR DATE.

MARK YOUNG Admin. TROPIC AIRPOWER FAA CRS T7KR187Y

www.tropicalairpower.com

DATE November 23, 2022

Mark Young

Tropic Airpower
FAA CRS T7KR187Y
20600 SW CITRUS BLVD
INDIANTOWN, FLORIDA 34956-3292
www.tropicalairpower.com

Lycoming IO-540-AE1A5

AD#	Subject	Amdt #	Eff Date	Recurring
63-14-03	Oil Pump Drive Shaft	583	07/06/63	Yes*
66-20-04	Oil Filter Adapter Gasket	39-277	08/27/66	
75-08-09	Oil Pump Drive Shaft and Impeller	39-3013	08/18/77	
75-09-15	Bendix Fuel Injector Flow Divider Cover Gasket	39-2187	04/30/75	
78-23-10	Bendix RSA Series Fuel Injector Bellows Seal	39-3333	11/07/78	
79-04-05	Bendix RSA Series Fuel Injectors Diaphragm	39-3570	09/26/79	
81-18-04 R2	Superseded By 96-09-10			
91-14-22	Superseded By 04-10-14			
92-12-05	Piston Pin Failure	39-8265	07/10/92	
92-20-07	Superseded By 93-05-21			
93-02-05	Superseded By 02-26-01			
93-05-21	Superseded By 93-11-11			
93-11-11	Diaphragm Fuel Pumps Overhauled (by AAI) - Remove Affected Pump and Replace	39-8584	06/21/93	
96-09-10	Oil Pump Impeller Failure	39-9586	07/15/96	
96-23-03	High Pressure Fuel Pumps	39-9826	12/17/96	
97-01-03	Superseded By 97-15-11			
97-15-11	Piston Pin Failure	39-10085	08/12/97	
98-17-11	Crankshafts Installed by Nelson Balancing Service	39-10713	10/19/98	
98-18-12	Superseded By 03-14-03			
02-04-51	Superseded By 02-17-53			
02-17-53	Superseded By 02-19-03			
02-19-03	Crankshaft Failure	39-12883	09/20/02	
02-20-51	Superseded By 02-23-06			
02-23-06	Superseded By 04-05-24			
02-26-01	Superseded By 08-14-07			
03-14-03	Rotary Fuel Pump Leaks	39-13222	08/14/03	Yes*
04-05-24	Crankshaft Gear Retaining Bolts	39-13519	03/30/04	
04-10-14	Crankshaft Gear Retaining Bolt	39-13644	06/25/04	Yes
06-20-09	Superseded By 12-19-01			
07-04-19 R1	Superior Air Parts Cylinder Assemblies	39-15005	05/07/07	
08-08-14	Superseded By 09-02-03			
08-14-07	Superseded By 11-26-04			
09-02-03	RSA-5 or RSA-10 Series - Fuel Injection Servo Plug Gasket	39-15793	02/09/09	Yes*
11-15-10	Superseded By 12-03-06			
11-26-04	Superseded By 15-19-07			
12-03-06	AVStar Fuel Servo Diaphragm	39-16947	02/24/12	
12-19-01	Crankshaft Replacement	39-17196	10/24/12	
15-19-07	Fuel Injector Fuel Lines and Clamps	39-18269	11/03/15	Yes
17-16-11	Connecting Rod Failure	39-18988	08/15/17	

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