

1. Approving Civil Aviation Authority/Country: FAA/United States		2.			3. Form Tracking Number: Invoice # 12425	
4. Organization Name and Address: Signature Engines, Inc., 4760 Airport Road, Cincinnati, Ohio 45226					5. Work Order/Contract/Invoice Number: E9011-OH	
6. Item:		7. Description:		8. Part Number:	9. Quantity:	10. Serial Number:
1		Lycoming Engine		O-360-A4M	1	RL-41345-36E
11. Status/Work: Overhauled						
12. Remarks: THIS ENGINE HAS BEEN OVERHAULED IN ACCORDANCE WITH THE APPLICABLE LYCOMING MANUALS. A LIST OF ALL PARTS, F.A.A. AIRWORTHINESS DIRECTIVES AND MANUFACTURER'S SERVICE BULLETINS COMPLIED WITH ARE A PART OF THESE RECORDS. ALL PARTS HAVE BEEN INSPECTED AND HAVE BEEN DETERMINED AIRWORTHY TO RETURN TO SERVICE. ENGINE TEST RUN PER FAA APPROVED DATA (SEIP-103) AND/OR OVERHAUL MANUAL. TEST SHEET FURNISHED. THIS ENGINE IS APPROVED FOR RETURN TO SERVICE FOR WORK PERFORMED. PARTS AND ACCESSORIES REPLACED: 4 New Cylinder Assemblies 2 Overhauled Magnetos 1 Overhauled Carburetor 1 New Fuel Pump 1 New Set of Spark Plugs 1 New Harness Engine T.S.M.O. 0 Hours Engine T.T.S.N. 2,140.4 Hours						
13a. Certifies the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12.				14a. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> 14 CFR 43.9 Return to Service in Block 12 Certifies that unless otherwise specified in Block 12, the work identified 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.:
						ESZR316Y
13d. Name (Typed or Printed):		13e. Date (dd/mm/yyyy):		14d. Name (Typed or Printed):		14e. Date (dd/mm/yyyy):
				Douglas P. Kleeman, Inspector		26/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 aircraft engine/propeller/article.</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 authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1.</p> <p>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.</p>						

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED — SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
TOTALS brought forward from previous page				

1. Approving Civil Aviation Authority/Country: FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG		3. Form Tracking Number: Invoice # 12425	
4. Organization Name and Address: Signature Engines, Inc., 4760 Airport Road, Cincinnati, Ohio 45226 Certificate No. E5ZR316Y				5. Work Order/Contract/Invoice Number: E9011-OH	
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:
1	Lycoming Engine	O-360-A4M	1	RL-41345-36E	Overhauled
<p>12. Remarks: THIS ENGINE HAS BEEN OVERHAULED IN ACCORDANCE WITH THE APPLICABLE LYCOMING MANUALS. A LIST OF ALL PARTS, F.A.A. AIRWORTHINESS DIRECTIVES AND MANUFACTURER'S SERVICE BULLETINS COMPLIED WITH ARE A PART OF THESE RECORDS. ALL PARTS HAVE BEEN INSPECTED AND HAVE BEEN DETERMINED AIRWORTHY TO RETURN TO SERVICE. ENGINE TEST RUN PER FAA APPROVED DATA (SEIP-103) AND/OR OVERHAUL MANUAL. TEST SHEET FURNISHED. THIS ENGINE IS APPROVED FOR RETURN TO SERVICE FOR WORK PERFORMED.</p> <p>PARTS AND ACCESSORIES REPLACED: 4 New Cylinder Assemblies 2 Overhauled Magnetos 1 Overhauled Carburetor 1 New Fuel Pump 1 New Set of Spark Plugs 1 New Harness</p> <p>Engine T.S.M.O. 0 Hours Engine T.T.S.N. 2,140.4 Hours</p>					
12a. Certifies the items identified above were manufactured in conformity to:			14a. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in Block 12		
<input type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data 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.		
13a. Authorized Signature:		13c. Approval/Authorization No.:		14b. Authorized Signature:	
				E5ZR316Y	
13d. Name (Typed or Printed):		13e. Date (dd/mm/yyyy):		14d. Name (Typed or Printed):	
				Douglas P. Kleeman, Inspector	
				14e. Date (dd/mm/yyyy): 26/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 aircraft engine/propeller/article.</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 authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1.</p> <p>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.</p>					

N80495 ETT:2140 Tach4927 TSMOH: 0 DATE: 2/19/2024

Performed **ANNUAL INSPECTION** per the scope & detail of FAR 43 app. "D".

#1	#2	#3	#4		
78/80	78/80	78/80	78/80		

Reinstalled engine overhauled by Signature Engines under WO E9011-OH
 Serviced engine with Mineral Oil Type M
 Replaced Lord Mounts
 Replaced all Fuel, oil carrying hoses by AERO Aviation
 Installed sensors per STC SA02594SE Installation Instructions Document # 103261-000 Rev M (see AF Entry)
 Installed New Alt belt
 Installed Reiff Pre Heat system on engine
 Installed overhauled Magnetos
 Installed overhauled Carburetor
 Installed Overhauled Alternator
 Ran engine, no leaks noted.

I certify that this ENGINE has been inspected in accordance with an ANNUAL INSPECTION & is in airworthy condition.

Dave Murphree AP3542861IA

Dave Murphree
 McKinney Aviation
 580 Beechcraft Ave.
 Suite 108
 Chesterfield MO 63005

Standard Run Log

Work Order #	F90 0			Engine #	Sherman		
Make	Lycoming	Model	O-200-ATM	Serial #	PL-41345-36E		
Technician	93	Run Date	12/26/2023	CIO	TDI	Exchange	
Engine	Articulated	Fuel System	Overhauled / As Supplied / Test Unit				

Test Limit Per Lycoming Overhaul Manual Test Procedures Table 9-1:

Fuel Pressure (psi)	2 - 5	Test Run Max. Oil Consumption (lbs):	0.76	Rated Power Engine (RPM):	2,700
Normal Oil Pressure (psi)	75 - 85	Idle Oil Pressure (psi)	25	Max. Cylinder Head Temperature (CHT):	500
Magneto Check RPM:	1800	Magneto to Engine Timing	R25 L25	Max. Oil Temperature:	230

Period	Minutes	Engine RPM & Steps	Cyl #1	Cyl #2	Cyl #3	Cyl #4	Cyl #5	Cyl #6
1	5	1200 ±100RPM (Extend run time until oil temp. is ~140°)	225	219	234	241		
***Stop engine & weigh oil 13.80 lbs.								
2	10	1200 ±25RPM	216	209	217	224		
3	10	1600 ±25RPM	265	258	272	281		
4	10	2200 ±25RPM ¹	339	326	337	356		
5	5	2400 ±25 RPM	369	345	368	384		
6	—	Magneto check ² R: 82 L: 90						
7	10	2400 ±25 RPM Check fuel & oil pressures. Check temperatures	366	348	366	371		
8	5	600 Idle RPM	237	221	229	238		
9	15	Perform a visual leak check of running engine						
10	5	2700 Max. Continuous Rated Power	379	366	398	403		
		600 Idle RPM						
		Cooling period until <300°Max. CHT at shut down. ³	267	250	268	271		
***Stop engine; weigh drained oil & perform oil consumption determination; perform a visual leak check ^{4,5} 13.23 lbs.								
Remove & inspect strainer screens or slave oil filters for contamination. Clean & reinstall strainer screens as required. Install new oil filter as required.								
Preservation fogging oil is to be sprayed into each cylinder per product manufacturer's directions.								
Total run time: 75 minutes minimum								

Tach Drive Check:	JTCLP	Prop. Gov. Pad:	NMA	Oil Consumption In Limits?:	YES / N
Idle Oil Pressure:	47	Max Continuous Rated Power Oil Pressure:	80	Oil Pressure In Limits?:	YES / N

- Do not run the engine above 1800 RPM until oil temperature has reached 150°F (71°C) and cylinder head temperatures have reached 200°F (93°C).
- Make one check on performance of each magneto channel alone at RPM specified in the engine's OHM. Clear the spark plugs by operating with both magnetos on for a few seconds between checks.
- Do not shut engine down until oil temperature is below 200°F (93°C) and cylinder temperatures are below 300°F.
- Fuel and oil leaks are not acceptable.
- Oil consumption at or below the stated limits in the engines current Overhaul Manual specifications is considered acceptable for this test. One repeat of this test run is acceptable. If oil consumption is in excess of the engine's Overhaul Manual limits after the second run, return the engine to the overhaul shop for a complete inspection.

Test run completed and engine operated within allowable limits:



4760 Airport Road
Hangar 6
Cincinnati, OH 45226-1646

SEIF-100

Phone: (513) 871-9966

Fax: (513) 871-9261

www.SignatureEnginesInc.com

Lycoming Engine Standard Run Log

Work Order #	E9011-0H	Customer Name	Jason Sherman		
Make	Lycoming	Model	O-360-A4M	Serial #	RL-41345-36E
Technician:	Tracy	Run Date:	10/26/2023	C/O	TDI Exchange
Engine is:	Carbureted / Fuel Injected	Fuel System:	Overhauled / As Supplied / Test Unit		

Test Limit Per Lycoming Overhaul Manual Test Procedures Table 9-1:

Fuel Pressure (psi):	2 - 5	Test Run Max. Oil Consumption (lbs):	0.76	Rated Power Engine (RPM):	2,700
Normal Oil Pressure (psi):	75 - 85	Idle Oil Pressure (psi):	25	Max. Cylinder Head Temperature (CHT):	500
Magneto Check RPM:	1800	Magneto to Engine Timing:	R25 L25	Max. Oil Temperature:	230

Period	Minutes	Engine RPM & Steps	Cyl #1	Cyl #2	Cyl #3	Cyl #4	Cyl #5	Cyl #6
1	5	1200 ±100RPM (Extend run time until oil temp. is ~140°)	225	219	234	241		
***Stop engine & weigh oil 13.82 lbs.								
2	10	1200 ±25RPM	216	209	217	224		
3	10	1600 ±25RPM	263	258	272	281		
4	10	2200 ±25RPM ¹	339	326	337	356		
5	5	2400 ±25 RPM	369	345	368	384		
6	---	Magneto check ² R: 82 L: 90						
7	10	2400 ±25 RPM Check fuel & oil pressures. Check temperatures.	366	348	366	371		
8	5	600 IdleRPM Perform a visual leak check of running engine	237	221	229	238		
9	15	2700 Max. Continuous Rated Power	379	366	398	403		
10	5	600 IdleRPM Cooling period until <300°Max.CHT at shut down. ³	267	250	268	271		
***Stop engine; weigh drained oil & perform oil consumption determination; perform a visual leak check ^{4,5} 13.23 lbs.								
Remove & Inspect strainer screens or slave oil filters for contamination. Clean & reinstall strainer screens as required. Install new oil filter as required.							TLPJ	
Preservation fogging oil is to be sprayed into each cylinder per product manufacturer's directions.							TLPJ	
Total run time: 75 minutes minimum								

Tach Drive Check:	JTLPJ	Prop. Gov. Pad:	NMA	Oil Consumption In Limits?:	YES / NO
Idle Oil Pressure:	47	Max Continuous Rated Power Oil Pressure:	80	Oil Pressure In Limits?:	YES / NO

- Do not run the engine above 1800 RPM until oil temperature has reached 150°F (71°C) and cylinder head temperatures have reached 200°F (93°C).
- Make one check on performance of each magneto channel alone at RPM specified in the engine's OHM. Clear the spark plugs by operating with both magnetos on for a few seconds between checks.
- Do not shut engine down until oil temperature is below 200°F (93°C) and cylinder temperatures are below 300°F.
- Fuel and oil leaks are not acceptable.
- Oil consumption at or below the stated limits in the engines current Overhaul Manual specifications is considered acceptable for this test. One repeat of this test run is acceptable. If oil consumption is in excess of the engine's Overhaul Manual limits after the second run, return the engine to the overhaul shop for a complete inspection.

Test run completed and engine operated within allowable limits:



4760 Airport Road
Hangar 6
Cincinnati, OH 45226-1646

SEF-007

Phone: (513) 871-9966
Fax: (513) 871-9261
www.SignatureEnginesInc.com

Engine Overhaul / TDI Parts Record

Work Order #	E9011-0H	Customer Name	Jason Sherman		
Make	Lycoming	Model	0-360-14M	Serial #	RL-41345-36E
Rated HP	160/180	Rated RPM	2400/2800	TC #	286
Cylinder Type	Superior Steel	Date Completed	10/24/23		
Case Match #	B80754				
Continental Case	7th Stud () Hump () Light ()	Lycoming Case	Wide Deck (x) Narrow Deck (x) Heavy ()		
Mag. Drive Gear Backlash	Y (x) N ()	Camshaft Gear Backlash	Y (x) N ()	Prop Dowel Bushings (Lyc)	Y (x) N ()
Crankshaft End Thrust Face & Slinger Clearance			Prop. Drive Gear Backlash (Geared)		
Qty.	Part #	Description	Lot or Serial #	Costing	
		ADAPTER BEARING			
		ALTERNATOR GEAR LOCK PLATES			
4	5616711 AM003	BEARING	1138565		
2	5613884 AM003	BEARING	270329 000018274		
		BEARING SET			
		BLADE BUSHING			
		BLADE BUSHING			
		BOLT- THRU- SHOULDERED			
		BOLT- THRU- SHOULDERED			
		BOLT- THRU- SHOULDERED			
		BOLT- THRU- SHOULDERED			
	Reuse	CAMSHAFT	S/N:		
		CAMSHAFT BOLTS			
		CAMSHAFT GEAR			
		CONNECTING ROD PINS			
		COUNTER WEIGHT			
		COUNTER WEIGHT			
		COUNTER WEIGHT BUSHING			
		COUNTER WEIGHT BUSHING			
		COUNTER WEIGHT BUSHING			
		COUNTER WEIGHT PINS			
		COUNTER WEIGHT PINS			
		COUNTER WEIGHT PINS			
		COUNTER WEIGHT PLATES			
		COUNTER WEIGHT SNAP RINGS			
		CRANKCASE PLUGS			
		CRANKSHAFT	S/N		
		CRANKSHAFT GEAR			
1	56-510-2217	CRANKSHAFT GEAR BOLT	1091328		
		CRANKSHAFT OIL SEAL			
1	5675439-1	GASKET SET Built			
		GEAR			

This list is continued on the back (next page) of this form. Signatures are required on the second page.



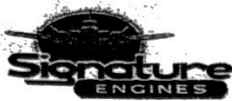
4760 Airport Road
Hangar 6
Cincinnati, OH 45226-1646

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Phone: (513) 871-9966
Fax: (513) 871-9261
www.SignatureEnginesInc.com

Engine Overhaul / TDI Parts Record

Work Order #	E9011-0H	Customer Name	Jason Sherman	
Make	Lycoming	Model	0-360-A4M	
Rated HP:	160/140	Rated RPM:	2400/2800	
Cylinder Type:	Superior Steel	Serial #	RL-41345-34E	
Case Match #:	BB0754	TC #:	286	
Continental Case:	7 th Stud() Hump() Light()	Lycoming Case:	Wide Deck() Narrow Deck() Heavy()	
Mag. Drive Gear Backlash:	Y(L) N()	Camshaft Gear Backlash:	Y(L) N()	
Crankshaft End Thrust Face & Slinger Clearance:		Prop Dowel Bushings (Lyc):	Y(L) N()	
Prop. Drive Gear Backlash (Geared):				
Qty.	Part #	Description	Lot or Serial #	Costing
		ADAPTER BEARING		
		ALTERNATOR GEAR LOCK PLATES		
4	SL16711 AM003	BEARING	1138565	
2	SL13884 AM003	BEARING	230329 000018274	
		BEARING SET		
		BLADE BUSHING		
		BLADE BUSHING		
		BOLT- THRU- SHOULDERED		
		BOLT- THRU- SHOULDERED		
		BOLT- THRU- SHOULDERED		
		BOLT- THRU- SHOULDERED		
	Reuse	CAMSHAFT	S/N:	
		CAMSHAFT BOLTS		
		CAMSHAFT GEAR		
		CONNECTING ROD PINS		
		COUNTER WEIGHT		
		COUNTER WEIGHT		
		COUNTER WEIGHT BUSHING		
		COUNTER WEIGHT BUSHING		
		COUNTER WEIGHT BUSHING		
		COUNTER WEIGHT PINS		
		COUNTER WEIGHT PINS		
		COUNTER WEIGHT PINS		
		COUNTER WEIGHT PLATES		
		COUNTER WEIGHT SNAP RINGS		
		CRANKCASE PLUGS		
		CRANKSHAFT	S/N:	
		CRANKSHAFT GEAR		
1	SL-STD-2217	CRANKSHAFT GEAR BOLT	1091328	
		CRANKSHAFT OIL SEAL		
1	SL75439-1	GASKET SET Built		
		GEAR		

This list is continued on the back (next page) of this form. Signatures are required on the second page.



4760 Airport Road
Hangar 6
Cincinnati, OH 45226-1646

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Phone: (513) 871-9966
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Lycoming Cylinder Record (Page 1 of 2)

Work Order #	E9011-OH	Customer Name	Jason Sherman		
Make	Lycoming	Model	O-360-A4M	Serial #	RL-41345-36E

CYLINDER MAKE & TYPE: Superior Steel

	Cylinder #1	Cylinder #2	Cylinder #3	Cylinder #4	Cylinder #5	Cylinder #6
366W 0000						
Cylinder Serial #	14259	14261	14262	14263		
Piston Part #	SL75089A	SL75089A	SL75089A	SL75089A		
Piston Pin Diameter						
Pin to Piston Clearance Range						
to						
Piston to Cylinder Clearance	0.010	0.010	0.010	0.010		
Ring Gap Clearance						
Top Groove	0.050	0.050	0.050	0.050		
Second Groove	0.050	0.050	0.050	0.050		
Third Groove	0.025	0.025	0.025	0.025		
Choke	0.010	0.010	0.010	0.010		
Ring Side Clearance						
Top Groove						
Second Groove						
Third Groove						

QTY	Part Number	Description	Remarks
4	SL3601-SC	RING set	230929-000020462
		RING	
		RING	
		RING	
4	SL75089A	PISTON	230522-000018716
4	SL13444-1	PISTON PIN	230609-000019396
		ROCKER SHAFT	
		LYCOMING CYL. KIT	

TECHNICIAN: Evan Lyons

DATE: 10/19/23



4760 Airport Road
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SEF-005L

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Lycoming Cylinder Record (Page 2 of 2)

Work Order #	EQ11-04	Customer Name	Jason Sherman
Document ID	Method of Compliance	Complied With	Not Applicable
MSB 634	Remove affected Parallel Valve Cylinder & Head from service per MSB.		EL
AD 2009-26-12	*Remove affected ECI Cylinders from service per AD.		EL
AD 2007-04-19 R1	Remove affected SAP Cylinders from service. SAP MSB 06-01E		EL
AD 2006-12-07	Remove affected ECI Cylinders from service. ECI MSB 05-08R2		EL
AD 97-15-11	Remove affected Piston Pins from service. LYC MSB 527C		EL
AD 97-01-04	Remove affected SAP Cylinders from service. SAP MSB 96-02B		EL
AD 92-12-05	Remove affected Piston Pins from service. LYC MSB 501B		EL
SI 1425A (1988)	Suggested Maintenance to Reduce Valve Sticking. LYC SI 1425A		EL
AD 84-19-03R1	Remove affected AVCO Cylinder Assemblies from service per AD.		EL
AD 80-14-07	Remove affected Exhaust Valve Spring Seats from service. LYC MSB 447B		EL
AD 73-23-01	Prevent Piston Pin failures by complying with SB 367F (SB 36F-1)		EL
AD 63-23-02	Replace affected Exhaust Valve Stems. LYC MSB 293B		EL
MSB 642A	Verify Piston Pin & Ring Combination on O-235-C, E & H Engines per MSB.		EL

INSPECTOR:

Don't Kerner

DATE:

10/19/23



E 9011-0H
0.360-44m

SEF #4

4760 Airport Road Cincinnati, Ohio 45226
(513) 871-9966 fax (513) 871-9261
www.SignatureEnginesInc.com
Repair Station # E5ZR316Y

Lycoming Connecting Rod Maintenance Release

Connecting Rod No.	11750		Bolt No.	75061 / 75060		
Bushing No.	13923		Nut No.	12186		
Rod No.	1	2	3	4	5	6
Rod Width At Crank	1.330	1.330	1.330	1.330	1.330	1.330
Crank End I.D.	STD 2.287	STD 2.287	STD 2.287	STD 2.287	STD 2.287	STD 2.287
Twist Check	+/- .007	+/- .007	+/- .007	+/- .007	+/- .007	+/- .007
Bend Check	+/- .005	+/- .005	+/- .005	+/- .005	+/- .005	+/- .005
Rods Weighted						
Piston Pin To Rod Bushing Clearance	.0018	.0018	.0018	.0018		

Service Bulletins, Service Instructions, Service Letters & ADs Complied With

Number	Method of Compliance	Initials
AD 2006-10-21	REMOVE FROM SERVICE ECI CONNECTING RODS P/N AEL11750 PER AD (O-, IO-, HO-, HIO-, AEIO-360; O- & TIO-540) Remove from service #054 & LOWER.	N/A JAS
AD 95-07-01	REPLACE SAP CONNECTING ROD BOLTS PER AD & SAP SB 95-002	JAS
AD 73-05-01	CONNECTING ROD ASSEMBLIES PER LYC SB 371A (Model VO-, IVO-, TVO-, TIVO-540 Series)	N/A JAS
AD 66-06-03	REPLACE CONNECTING ROD P/N 74503 WITH P/N 74308 PER AD & LYC SB 302 OR LATER (IO-360-A1A)	N/A JAS
MSB 632B	CONNECTING ROD, WITH NON-CONFORMING SMALL END BUSHINGS, IDENTIFICATION	JAS
MSB 630A	CONNECTING ROD, BUSHING INSPECTION AFTER CYLINDER REMOVAL	JAS
MSB 439A	CONNECTING ROD, INSPECTION FOR FRETTING &/OR GALLING	JAS
SI 1485G	BOLTS, CONNECTING ROD INSTALLATION & IDENTIFICATION	JAS

The Following Parts Have Been Replaced

Qty	Part No.	Part Description	Remarks
4	SL 13923	BUSHING	230714-000019776 MAGNAFLUXED REBUSHED LINE-BORED BALANCED & CHECKED ALIGNMENT
8	SL 75061	BOLT	230707-000019671
8	SL 12186	NUT	230427-000018624

Technician: John Smith JAS

Date: 10-9-23

Inspector: Joe Lipus

Date: 10-10-23

LW11750 LYC RMR.doc

Updated: 02/23/2023



Maintenance Compliance Record

Make	LYCOMING	Model	OIO/HIO-360 A-17	Serial #	RL-41245-26E
Work Order #	E 9011-04	Inspector	J. [Signature]	Date	10/8/23
Number	Method of Compliance	Initials			
MSB 238	INSPECTED HYDRAULIC TAPPET PLUNGER PER SB	[Signature]			
MSB 240W	MANDATORY PARTS REPLACEMENT AT OVERHAUL PER SB	[Signature]			
MSB 273A	BODY FIT THRU-STUDS PER SB	[Signature]			
MSB 400	INSTALLED TEFLON THRUST BUTTON PER SB	[Signature]			
MSB 533C	PROP STRIKE INSPECTION	[Signature]			
MSB 549	CRANKSHAFT INSPECTED FOR S/N PER SB	[Signature]			
MSB 639	INSPECTION OF ROCKER ARM PN#LW-15014 (xxx-360-E1A6D only; SERIES "76")	[Signature]			
SB 369R	INSPECTION AFTER OVERBOOST / OVERSPEED (Also See S.B. 592)	[Signature]			
SB 619	HARDNESS CHECK FOR ROCKER ARM P/N LW 15014	[Signature]			
SI 1011N	CURRENT TAPPET BODIES AND PLUNGER PER SI	[Signature]			
SI 1012J	CORRECT LOCATOR FOR COUNTERWEIGHTS AND ROLLERS	[Signature]			
SI 1029L	FOLLOWED TIGHTENING PROCEDURES PER SI	[Signature]			
SI 1059E	PRE-LUBRICATED PARTS PER SI	[Signature]			
SI 1076	CHECKED PITCH ALIGNMENT PER SI	[Signature]			
SI 1123D	MODIFIED CASE FOR DOWELS AND O-RINGS PER SI	[Signature]			
SI 1125D	USED PROPER SEALANTS AND PROCEDURES PER SI	[Signature]			
SI 1142B	REPLACEMENT OF CRANKSHAFT COUNTERWEIGHT BUSHINGS PER SI	[Signature]			
SI 1164B	SUPPLIED PROPER OIL PUMP HOUSING PER SI	[Signature]			
SI 1225D	INSTALLED STRAIGHT CRANKCASE BEARING DOWELS PER SI	[Signature]			
SI 1228A	MODIFIED HOLD DOWN PLATES PER SI	[Signature]			
SI 1230B	INSTALLED PROPER OIL PUMP DRIVE SHAFT PER SI	[Signature]			
SI 1284A	SHROUD TUBE RETAINING SPRING REPLACEMENT PER SI	[Signature]			
SI 1290F PARTii	MODIFIED CRANKCASE FOR O-RINGS PER SI	[Signature]			
SI 1299B	MAGNETO DRIVE GEAR AND CUSHION MODIFICATION PER SI	[Signature]			
SI 1307B	CONNECTING ROD BOLTS TORQUED PER SI	[Signature]			
SI 1310A	LOCK WIRE FOR IDLER SHAFTS PER SI	[Signature]			
SI 1324C	INSTALLED CRANKSHAFT SEAL PER SI	[Signature]			
SI 1341	MODIFIED REAR CASE FOR OIL FEED PER SI	[Signature]			
SI 1343C	SET SCREW FOR PROP GOV. IDLER SHAFT PER SI AD 2015-02-07	[Signature]			
SI 1424A	INSTALLED TAPPET AND PLUNGER PER SI	[Signature]			
SI 1442A	IMPROVED OIL FILTER BYPASS VALVE PER SI	[Signature]			
SI 1454A-1	ROCKER ARMS SUPPLIED PER SI	[Signature]			
SI 1458G	CHECKED ROD BOLTS FOR SOFTNESS PER SI	[Signature]			
SI 1469	HIGH TENSILE STRENGTH BOLTS PER Lycoming SI	[Signature]			
SL L03-05C	SL PREFIX CONNECTING ROD BOLTS & NUTS PR Superior SL	[Signature]			
SI 1508C	DUAL MAG ATTACHMENT	[Signature]			
SI 1511A	REMOVAL OF THE URETHABOND AT OVERHAUL	[Signature]			
SI 1535	COUNTERWEIGHT AND ROLLER INSPECTION AND INSTALLATION	[Signature]			
AD 2017-16-11	CONNECTING ROD BUSHING M.S.B 632B	[Signature]			
AD 2015-19-07	FUEL LINE AND SUPPORT CLAMPS INSTALLED PER MSB 342G	[Signature]			
AD 2012-19-01	CRANKSHAFT RETIREMENT FOR LYCOMING ENGINES PER MSB 569A-1	[Signature]			
AD 2006-06-16	CRANKSHAFT REPLACEMENT PER A.D.	[Signature]			
AD 2005-19-11	CRANKSHAFT REPLACEMENT, 300 hp OR LOWER PER MSB 566-1	[Signature]			
AD 2004-10-14	PROP STRIKE INSPECTION OF CRANK GEAR PER MSB 475C	[Signature]			
AD 2002-12-07	OIL CONVERTER PLATE GASKET ACCORDING TO MSB 543C/SI 1453B	[Signature]			
AD 98-17-11	CRANKSHAFT NOT REPAIRED BY NELSON BALANCING SERVICE	[Signature]			
AD 98-02-08	INSPECTED CRANKSHAFT I.D. FOR CORROSION PER MSB 505B/530B-1	[Signature]			
AD 96-09-10	SUPPLIED PROPER OIL PUMP GEARS LW18109/LW18110 PER MSB 524-1	[Signature]			
AD 90-04-06R1	GOVERNOR OIL LINE INSTALLED WITH PROPER HOLD DOWNS PER AD	[Signature]			
AD 87-10-06R1	INSPECTION AND REWORK OF ROCKER ARM LW18790 PER MSB 477A-1	[Signature]			
AD 84-13-05	INSPECTION AEROBATIC CRANKSHAFT M.S.B 465C	[Signature]			
AD 79-10-03R2	76 SERIES MOUNT LEG BOLT TORQUE SI 1380	[Signature]			
AD 75-08-09	INSPECT, REPLACE & ASSEMBLE DRIVE SHAFT & IMPELLER PER SB524-1	[Signature]			
AD 71-11-02	REPLACE INTAKE & EXHAUST HYD. TAPPET PLUNGER ASS. P/N 76290 SB 328	[Signature]			
AD 71-05-02	CRANKCASE MAIN BEARING INSP. & MODIFY PER SB327C; SI1123D & 1112E	[Signature]			



4760 Airport Road
Hangar 6
Cincinnati, OH 45226-1646

SEF-008

Phone: (513) 871-9966
Fax: (513) 871-9261
www.SignatureEnginesInc.com

Lycoming Engine Assembly Inspection

Work Order #	E9011 DH	Customer Name	Jason Sherman
Make	Lycoming	Model	0360A4M
Technician's Name	EL	Serial #	RL-41345-36E

Task	Technician's Initials	In-Process Inspector's Initials
Crankshaft Bearing Dowels Installed	N/A	N/A OK
Crankshaft Bearings Installed For: Std. (003) .006 .010	N/A	OK
Front Thrust Clearance Checked	N/A	
Clear Oil Passages And Install Plugs In Crankcase	N/A	OK
Crankshaft Inner Plug, Front Crankshaft Plug Installed	N/A	
Prop Dowel Bushings Checked	N/A	
Crankshaft Pin Sludge Tube Installed	N/A	N/A OK
Counterweight Pins, Plate, Snap Ring And Bushings Installed	N/A	N/A OK
Connecting Rod Bolts, Nuts Torqued & Bearings Installed: Std. .003 .006 .010	N/A	OK
Crankshaft Gear Attaching Bolt Torqued & Safetied	N/A	OK
Camshaft Followers Installed	N/A	OK
Camshaft Installed	N/A	OK
Thru-Stud Dowels Installed	N/A	
Thru-Stud O-Ring Seals Installed	N/A	OK
Lifter Plunger And Cups Installed	EL	
Governor Drive Gear Woodruff Key Or Set Screw Installed	N/A	N/A OK
Piston Cooling Nozzles Installed And Torqued	N/A	N/A OK
Cylinder Base Studs Wired Brushed And Oiled After Cylinder Installed	N/A	OK
Cylinder Base Nuts Wired Brushed Inside And Oiled	N/A	
Cylinder Hold Down Plates, Modified Per SI 1228A	N/A	N/A OK
Cylinder Base Oil Seals Installed	EL	
Cylinder Base Nuts Torqued Per Specifications	EL	OK
Push Rod Shroud Tube Seals And Retainer Installed	EL	OK
Idle Shaft Lubrication, Oil Pump Per SI 1341 (AD 96-09-10)	N/A	
Oil Pump Body Torqued & Safetied	N/A	N/A
Oil Pump Drive Shaft And Gears Installed	N/A	N/A
Fuel Pump Plunger And Lobe Gear Installed	N/A	N/A
Crankshaft Idler Gear For Fuel Pump Drive Installed	N/A	N/A
Tachometer Shaft Oil Seal Installed	N/A	
Mag Bearing Boss And Bearings Installed	N/A	
Idle Gear Support Torqued And Safetied	N/A	N/A
Sump Pickup Plug Installed & Safetied	N/A EL	N/A
Engine Mounting Bracket Dowels Removed	N/A	N/A
Oil Sump Installed & Screws Safetied; Bracket Installed	EL	N/A
Oil Relief Valve Sleeve & Spring Installed	EL	
Rocker Arms Installed In Correct Position For Exhaust & Intake	EL	OK
Valve To Rocker Arm Clearance Checked	EL	OK
Magneto Drive Gear Cushion Or Retainer Installed	EL	



4760 Airport Road
Hanger 6
Cincinnati, OH 45226-1646

SEIF-002L
T: 513.871.9966
F: 513.871.9261
www.SignatureEnginesInc.com

LYCOMING NON-DESTRUCTIVE TESTING INSPECTION REPORT

Work Order #		E9011-0H		Customer Name		Jason Sherman	
Make	Lycoming	Model	0-360-A4M	Serial #	RL-41345-36E		
Prop-Strike / Sudden Stoppage? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> C/O <input type="checkbox"/> SEI Core <input type="checkbox"/> TDI <input type="checkbox"/> Special Insp.							
MAGNAFLUX							
Part	MAG PASS	MAG FAIL	INSP PASS	INSP FAIL	NOT INSP	REPLD	
Crankshaft	X		X				
Crank Part #	77037		Crank Serial #	V537942362		VAR? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Crank main journal	<input type="checkbox"/> STD	<input checked="" type="checkbox"/> M.003	<input type="checkbox"/> M.006	<input type="checkbox"/> M.010	Flange thickness: .441		
Crank rod journal	<input checked="" type="checkbox"/> STD	<input type="checkbox"/> M.003	<input type="checkbox"/> M.006	<input type="checkbox"/> M.010	Pilot run-out: .000		
4-cylinder crank journal run-out	#2	.000	#3	.000	#3	.000	Flange run-out: .001
6-cylinder crank journal run-out	#1		#3		#3		#4
Crankshaft sent for repair	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						
Part	MAG PASS	MAG FAIL	INSP PASS	INSP FAIL	NOT INSP	REPLD	
Counterweights					MA		
Con. Rod Cap	X		X				
Con. Rod Body	X		X				
Camshaft	X		X				
Cam Drive Gear	X		X				
Crank Drive Gear	X		X				
Rocker Arms	X		X				
Push Rods	X		X				
Thru-Bolts	X		X				
Gears	X		X				
Other:							
ZYGLOW							
Part	ZYG PASS	ZYG FAIL	INSP PASS	INSP FAIL	NOT INSP	REPLD	
Crankcase	X		X				
Case Casting #	C11620041-R		Case Serial #	080754		Case Thickness 4.500	
T Mod (-H2AD & LO/O-360-Exxx models only)	<input type="checkbox"/> Verified <input type="checkbox"/> No; Sent out for Mod.						
Cylinder base studs straight	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						
Thru-bolt O-ring depth	<input type="checkbox"/> Verified <input checked="" type="checkbox"/> Cut						
Oil grooves in case	<input type="checkbox"/> Verified <input type="checkbox"/> Cut						
Big Bore	<input type="checkbox"/> STD <input type="checkbox"/> P50						
Small Bore	<input checked="" type="checkbox"/> STD <input type="checkbox"/> P50						
Crankcase sent for repair	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						
Part	ZYG PASS	ZYG FAIL	INSP PASS	INSP FAIL	NOT INSP	REPLD	
Rear Case	X		X			Rear Case ID # C21A21515	
Oil Sump	X		X				
Mount Legs					X		
Oil Pump Housing	X		X				
Oil Filter Housing	X		X				
Magneto Pads	X		X				
Assembly Pads	X		X				
Other:							
Non-Destructive Testing Complied with in accordance to Lyc. SI 1285F Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>							

Technician's Signature:

[Signature] JAL JAL Limpa

Date: 10-10-2023

C/O Customer Overhaul

NOT INSP

Not Provided or Checked

REPLD

Replaced

STD

Standard

TDI Teardown Inspection

E9011-04

1. Approving Civil Aviation Authority/Country: FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG		3. Form Tracking Number: PS-00052643	
4. Organization Name and Address: Superior Air Parts 621 S. Royal Lane, Suite 100, Coppell, TX 75019, USA				5. Work Order/Contract/Invoice Number: PQ0060SW SO-00013715	
6. Item	7. Description	8. Part number	9. Quantity	10. Serial number	11. Status/Work
001	CYLINDER COMPLETE ASSY.	SL36006W-A20P	6	366W000014261 366W000014262 366W000014263 366W000014264 366W000014265 366W000014266	NEW
12. Remarks AIRWORTHINESS APPROVAL					
13a. Certifies the items identified above were manufactured in conformity to: <input checked="" type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12.			14a. <input 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 12, 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: PQ0060SW		14b. Authorized Signature:	
13d. Name(Typed or Printed): Darryl Harlos		13e. Date(dd/mmm/yyyy): 09 Oct 2023		14c. Approval/Certificate No.:	
				14d. Name(Typed or Printed):	
				14e. Date(dd/mmm/yyyy):	
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.					

E9011-04

E9011

1. Approving Civil Aviation Authority/Country: FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number: PS-00052644	
4. Organization Name and Address: Superior Air Parts 621 S. Royal Lane, Suite 100, Coppell, TX 75019, USA PQ0060SW					5. Work Order/Contract/Invoice Number: SO-00013717	
6. Item	7. Description	8. Part number	9. Quantity	10. Serial number	11. Status/Work	
001	CYLINDER COMPLETE ASSY.	SL36006W-A20P	6	366W000014257 366W000014258 366W000014259 366W000014260 366W000014267 366W000014268	NEW	
12. Remarks AIRWORTHINESS APPROVAL						
13a. Certifies the items identified above were manufactured in conformity to: <input checked="" type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12.			14a. <input 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 12, 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: PQ0060SW		14b. Authorized Signature:		14c. Approval/Certificate No.:
13d. Name(Typed or Printed): Darryl Harlos		13e. Date(dd/mmm/yyyy): 09 Oct 2023		14d. Name(Typed or Printed):		14e. Date(dd/mmm/yyyy):
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.						



E9011

Certificate Of Conformance

All parts have been purchased from Original Equipment Manufacturers, Authorized Distributors, Suppliers or Dealers, or Other sources believed by International Aviation Support to be reputable sellers of genuine parts and products. Additional certification is retained on file at IAS and may be obtained upon request.

Customer: Signature Engines
PO Ref #: E9011

Invoice #: 229657
Date: 10/10/2023

#	Part #	Description	Condition	Quantity
1	SL36006W-A20P	Cylinder	New	4
1		SN: 366W000014259		
1		SN: 366W000014261		
1		SN: 366W000014262		
1		SN: 366W000014263		
2	LRT23381	Roller Tappet	New	8


Phuc Le

[illegible]

E9011-017

1. Approving Civil Aviation Authority/Country: FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number: 1948299-9	
4. Organization Name and Address: Kelly Aero, LLC, 1400 E. South Blvd., Montgomery, AL 36116 (PQ4176CE)				5. Work Order/Contract/Invoice Number: 1948299		
6. Item	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:	
1	HARNESS ASSY	KA14001	1	N/A	NEW	
12. Remarks: Item 1. Date Code: 1123 AIRWORTHINESS APPROVAL PARTS.						
13a. Certifies the items identified above were manufactured in conformity to: <input checked="" type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12.			14a. <input 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.: PQ4176CE		14b. Authorized Signature:		
13d. Name (Typed or Printed): JONEISHA R. BEDGOOD		13e. Date (dd/mm/yyyy): 12 SEP 2023		14c. Approval/Certificate No.:		
				14d. Name (Typed or Printed):		
				14e. Date (dd/mm/yyyy):		
User/Installer Responsibilities						
It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.						
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 parts/components/assemblies 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.						

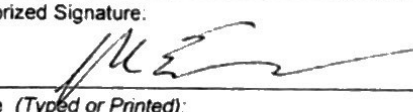
E9011-04

1. Approving Civil Aviation Authority/Country: FAA/United States		2.		3. Form Tracking Number: L-07146	
4. Organization Name and Address: Kelly Aero, LLC, 1400 E. South Blvd., Montgomery, AL 36116 (9KJR356C)				5. Work Order/Contract/Invoice Number: 1946939	
6. Item	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:
1	MAGNETO 4300 SERIES	4371	1	L-07146	OVERHAULED
12. Remarks: OVERHAULED IN ACCORDANCE WITH APPROVED RS DER KA-ROS-2021-001 DATED 5/17/2021 AND IPL SECTION OF CHAMPION AEROSPACE OVERHAUL MANUAL L-1363J, DATED APRIL 20, 2021. SERVICE BULLETINS COMPLIED WITH: SB1-07, SB2-08B, SB1-12, SB3-08A, SB3-08B, SB1-15A, SB1-19, SB2-19A, SB1-86C. FULL DETAILS OF WORK CARRIED OUT PER WORK ORDER NO. 1946939 CERTIFIES THAT THE WORK IN BLOCK 11/12 WAS CARRIED OUT IN ACCORDANCE WITH TITLE 14, CODE OF FEDERAL REGULATIONS, PART 43 AND WITH EASA PART 145. WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVAL CERTIFICATE NUMBER EASA.145.6588 AND BY THE FAA AIR AGENCY CERTIFICATE NUMBER 9KJR356C.					
13a. Certifies the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12.			14a. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input checked="" 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: <i>Cran R. Bess</i>	
13d. Name (Typed or Printed):		13e. Date (dd/mm/yyyy):		14c. Approval/Certificate No.: 9KJR356C	
				14d. Name (Typed or Printed): VONEISHA R. BEDGOOD	
				14e. Date (dd/mm/yyyy): 13 JUL 2023	
User/Installer Responsibilities					
It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.					
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 parts/components/assemblies 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.					


E9011-07


1. Approving Civil Aviation Authority/Country: FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number: L-03501		
4. Organization Name and Address: Kelly Aero, LLC, 1400 E. South Blvd., Montgomery, AL 36116 (9KJR356C)					5. Work Order/Contract/Invoice Number: 1944092		
6. Item	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:		
1	MAGNETO 4300 SERIES	4370	1	L-03501	OVERHAULED		
12. Remarks: OVERHAULED IN ACCORDANCE WITH APPROVED RS DER KA-ROS-2021-001 DATED 5/17/2021 AND IPL SECTION OF CHAMPION AEROSPACE OVERHAUL MANUAL L-1363J, DATED APRIL 20, 2021. SERVICE BULLETINS COMPLIED WITH: SB1-07, SB2-08B, SB1-12, SB3-08A, SB3-08B, SB1-15A. FULL DETAILS OF WORK CARRIED OUT PER WORK ORDER NO. 1944092 CERTIFIES THAT THE WORK IN BLOCK 11/12 WAS CARRIED OUT IN ACCORDANCE WITH TITLE 14, CODE OF FEDERAL REGULATIONS, PART 43 AND WITH EASA PART 145. WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVAL CERTIFICATE NUMBER EASA.145.6588 AND BY THE FAA AIR AGENCY CERTIFICATE NUMBER 9KJR356C.							
13a. Certifies the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12.			14a. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input checked="" 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:		14c. Approval/Certificate No.:	
						9KJR356C	
13d. Name (Typed or Printed):		13e. Date (dd/mmm/yyyy):		14d. Name (Typed or Printed): Austin T. Kennedy		14e. Date (dd/mmm/yyyy): 31 MAR 2023	
User/Installer Responsibilities It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. 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 parts/components/assemblies 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.							

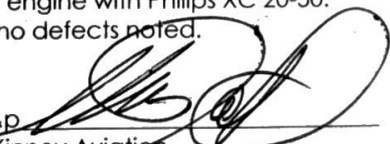
E9011-0H

1. Approving Civil Aviation Authority/Country: FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG				3. Form Tracking Number: W/O 154749	
4. Organization Name and Address: Aerotech of Louisville, Inc. 2209 Watterson Trail Louisville, KY 40299						5. Work Order, Contract, or Invoice Number: W/O: 154749	
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:		
1	FORD ALTERNATOR	DOFF10300J	1	S/N H-R010244	OVERHAULED		
12. Remarks: <p>This item was OVERHAULED by Aerotech of Louisville, Inc. on</p> <p>W/O # 154749 Dated 10/OCT/2023</p> <p>FAA Approved repair station number PU4R453M.</p> <p>OVERHAULED unit per overhaul manual SGA-1000</p>							
13a. Certifies the items identified above were manufactured in conformity to:				14a. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in Block 12			
<input type="checkbox"/> Approved design data and are in a condition for safe operation <input type="checkbox"/> Non-approved design data 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:	
						PU4R453M	
13d. Name (Typed or Printed):		13e. Date (dd/mm/yyyy):		14d. Name (Typed or Printed):		14e. Date (dd/mm/yyyy):	
				MIKE EVANS		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 aircraft engine/propeller/article..</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 authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1.</p> <p>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.</p>							


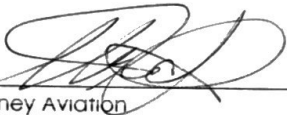
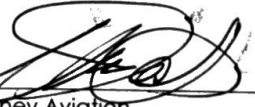
DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED — SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page

Registration #	Date	Hobbs	
N80495	4/30/2024	4930	
<p>Changed oil and filter, serviced engine with Philips XC 20x50 Ran engine, no leaks noted.</p> <p>Victor Valdes 3338962 a&p  McKinney Aviation 580 Beechcraft Ave. Suite 108 Chesterfield MO. 63005</p>			

Registration #	Date	Hobbs	
N40895	07/29/24	4994.8	
<p>Changed oil and filter, serviced engine with Phillips XC25x50. Ran Engine no defects noted.</p> <p>Victor Valdes 3338962 a&p  McKinney Aviation 580 Beechcraft Ave. Suite 108 Chesterfield MO. 63005</p>			

Registration #	Date	Hobbs	Tach:
N80495	10/21/2024	5065.7	124.9
<p>Changed oil and filter, serviced engine with Philips XC 20-50. Ran engine checked for leaks, no defects noted.</p> <p>Victor Valdes 3338962 a&p  McKinney Aviation 580 Beechcraft Ave. Suite 108 Chesterfield MO. 63005</p>			

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DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED — SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK												
N80495 Hobbs: 5007.2 ETT: 2214.2 TTSOH: 24.2 DATE: 02/27/2025 <div style="margin-left: 100px;">5111.1 vu 232.4 1184</div> <p>Performed ANNUAL INSPECTION per the scope & detail of FAR 43 app. "D".</p> <table border="1"> <thead> <tr> <th>#1</th> <th>#2</th> <th>#3</th> <th>#4</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>76/80</td> <td>77/80</td> <td>78/80</td> <td>77/80</td> <td></td> <td></td> </tr> </tbody> </table> <p>Changed oil and filter, serviced engine with Phillips 20w50 Replaced #2 intake gasket Ran engine, no leaks noted. I certify that this ENGINE has been inspected in accordance with an ANNUAL INSPECTION & is in airworthy condition.</p> <p style="text-align: right;">David Murphree  A&P3542861 IA McKinney Aviation 580 Beechcraft Ave. Suite 108 Chesterfield MO 63005</p>					#1	#2	#3	#4			76/80	77/80	78/80	77/80		
#1	#2	#3	#4													
76/80	77/80	78/80	77/80													
<table border="1"> <thead> <tr> <th>Registration #</th> <th>Date</th> <th>TSMOH</th> <th></th> </tr> </thead> <tbody> <tr> <td>N80495</td> <td>6/4/25</td> <td>220</td> <td></td> </tr> </tbody> </table> <p>Changed oil and filter, serviced engine with Phillips 20X50 Replaced carb heat scat hoses. Ran engine, no leaks noted.</p> <p style="text-align: right;">Victor Valdes 3338962 a&p  McKinney Aviation 580 Beechcraft Ave. Suite 108 Chesterfield MO. 63005</p>					Registration #	Date	TSMOH		N80495	6/4/25	220					
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N80495	6/4/25	220														
<table border="1"> <thead> <tr> <th>Registration #</th> <th>Date</th> <th>Hobbs</th> <th></th> </tr> </thead> <tbody> <tr> <td>N80495</td> <td>07/29/2025</td> <td>5243.1 / 282.6</td> <td></td> </tr> </tbody> </table> <p>Changed oil and filter, serviced engine with Phillips XC 20-50. Removed and replaced oil pressure switch with new. Ran engine, no leaks detected.</p> <p style="text-align: right;">Victor Valdes 3338962 a&p  McKinney Aviation 580 Beechcraft Ave. Suite 108 Chesterfield MO. 63005</p>					Registration #	Date	Hobbs		N80495	07/29/2025	5243.1 / 282.6					
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N80495	07/29/2025	5243.1 / 282.6														
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