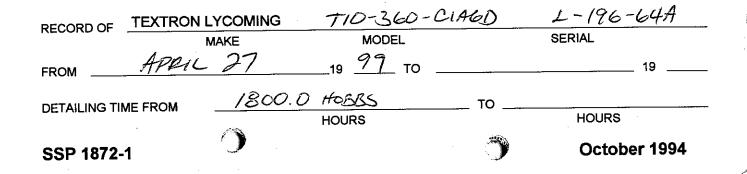




652 Oliver Street Williamsport, PA 17701 U.S.A. 717/323-6181

ENGINE LOG AND MAINTENANCE RECORD



Form No. 365

II A IKON Lycoming

Reciprocating Engine Division/ Subsidiary of Textron Inc. 652 Oliver Street Williamsport, PA 17701 U.S.A. 717/323-6181

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: TIO-360-C1A6DSigned Serial #: L-196-64A Textron Ly Date: 04/05/99 Williamspo Total Time: 5318:7 Montoursy Work Order #: A-5985 Repair Sta

Textron Lycoming Service Center Williamsport/Lycoming Co. Airport Montoursville, PA 17754 Repair Station: ED1R109K

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Mfgr. TEXTRON LYCOMING		oming
Туре	652 Oliver Street Williamsport, PA 17701 U S 717/323-6181	Α
Rated H.P.	and the second	- the production of the second s
Rated R.P.M.		
Bore		
Compression Ratio	DETACH AND RET	TAIN THIS PORTION FOR YOUR RECORD
Reduction Gear Ratio		
Propeller	Hub Design	Hub Serial No.
Blade Design	Blade Serial No.	Blade Serial No.
Max. Hub H.P.	Max. Blade H.F	
Pitch	Diameter	Length
Name		
Address		

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Serial No. <u>~-196-64A</u>

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Date					C:	License
	Hrs	Min	REPAIRS - ADJUSTMENTS - SERVICE - R	EMARKS	Signature	Number
7/99			INSTALLED TOAS ENGINE C	N NBOOAT IN TH	· LEFT POSIT	ion
OBS:	1900.	0	WITH NEW SHOCK MOUNTS &	HARDWERDE AND P	to forcowing	over ston el
Mott:	0	0	ACLESSORIES: HARTERS PROP	HC-CZYK-ZCYR,	FC7646A,5	IN: A47475
77:	53 <i>i</i> 8.	7	WOODWARD GOV. P/NI A210653	- SIN. 1991044; 1	CM NHENERC	D4LN-3020,
			PIN: 10-652555-13, SIN: BIT990	16, PRECISION FLER S	tio RSA-5AD	1, Plat:
			2524939-2, SIN: 70128702;	RAJAY TURBOCHARE	ER MINI 3BTS	SEE IOJ 2:
			Phy: 46A21184, 5/N: 7\$02990	17; STARTER MW:	MAB. 4016, SA	V: 9011139;
•			ACTERNATOR M/W: ALU-84212	\$, S/N: 8081703;	Remse Fut	Pinno.
			PH: UNITED, MA: RG179801	C, STA: C4753;	on Caren Pla	1: 8533718,
			SINI 8IM-860 (CONTINUAS	TION ON NEET P	FBE -9)	· · ·
			Page Total	All Repair Data Must Bear t	he Endorsement of a	
			Brought Forward	Certificated Mechani) d Certificate Number M	his Rating and e Shown.	
	Mott:	Mott: 0	1177 1900 0 10845:1900 0 1004:00 77:5318.7 1 1 1 1 1 1 1 1 1 1 1 1 1	OTBELS: 1800.0 W: ITH NEW SHOCK MOUNTS & MOTH: 0.0 ACLESSORIES: HETELL PROP TT: SJI8.7 WOODWARD 60V. P/NIA210653 P/NIA210653 P/N: 10-682555-13, S/N: BITAGO SJN: BITAGO DOBULTO 2524939-2, S/N: TOI28702; P/N: 46A21184, S/N: T\$02990 P/N: 46A21184, S/N: T\$02990 ACTERNATOR M/N: ALLY - 842112 P/N: 251166, M: N: F6179801 SJN: B/M - 860 SJN: B/M - 860 CONTINUAR Page Total Brought Forward Brought Forward	OBSKS: 1800.0 W:TH NEW SHOCK NOUNTS & HARDWARK AND TO MOTH: D.O. Accessories: HARTEEL Prop HC-C24K - JC4P, TT: SJI87 WOODWARD GOV. P/N: AJ10655, JN - 1991044; T PIN: 10-682555-13, SIN: BIT99016, PREcision Fuel 2534939-2, SIN: T0128702; R45M TURBOCHARE PIN: 46A21184, SIN: 780399017; STARTER MIN: Actebrator MIN: ALG - 843114, SIN: 8081703; PIN: 46A21186, MN: R617980K, SIN: 8081703; PIN: 46A-2660 (CONTINUATION) ON NEWT PS SINI: 8/M-860 (CONTINUATION) ON NEWT PS Page Total All Repair Data Must Bear to Brought Forward All Repair Data Must Bear to	MOTA: DO ACLESSORIES: HARTEELE PLOD HC-C24K-JCUR/FC7646A, 5 TT: 53187 WOODWARD GOV. P/N: AZIO655, 5/N: 1991044; TCM MAGNERO P/N: 10-652555-13, 5/N: BIT99016, PRELISION FUEL SEVO RSA-5AD DSD4939-2, 5/N: 70128702; RASAY TURBOCHARGER M/N: 3BTS P/N: 46A21184, 5/N: 7\$0799017; STARTER M/N: MHB. 4016, 5/ ACTERNATOR M/N: ALLY-BYDILL, 5/N: 8081703; ROMBE FUEL P/M: LWIII66, M/N: R617980K, 5/N: C4753; OIL COLLER P/N SINI 8/M-860 (CONTINUENTION) ON NEET PLACE - 59 Page Total Brought Forward All Repair Data Must Bear the Endorsement of a Certificated Mechani, Jud his Rating and

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Serial No. <u>2-196-648</u>

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SMUH	0	0	OL & FUEL FLEX Hose Assy's REPAIRED, C.	smed & pan	to ENGINE			
GTT	5318	7	BAFFIES. REPLACED BAFFIE SEAL MATERIA	with new	Renvion			
			CHANKSHART GYRANSON PLUES. C/W S1.1472	- REMOVALO,	e Pressnoom			
			ON. CWSI. 1014M - Services Ensine with 845 or Arristen					
			100W Ashers Dispression on . C/W SI. 124	1C - PAton	ED ENBINE			
			\$ TURBO CHARGER. C/W SI. 1427B - GROUND	RUN up of	enstrong of			
		-	ADJUSTED MIXTURE & IDLE APM. C/N AD 93-	02-05 Futer 1	NJOUTION			
			Line Insportand - ALL OKAY, NEW DUSE 190	P. DITOKKS OR	4/2000			
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			ENGINE LOG Serial No. 2-196-6	4A
Date		me		ense mber
<u> </u>	Hrs	Min		
27199			C/W AD 98-12-12 File Primp RELIEF VALVE ATTORCHINGEN	
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SmoH:	0	D	AT 1850.0 HOBBS. ENGINE GROUND BAN & LEAK CHE	KK.
ETT:	5318	17	OKAY. NO IGARS. REPLACED INDURTION BIR FILTER ELEM	- Teritary
			WITH NEW. REF. ASC -10: 103916 AIRSERVICE CORPORATION	
			PAYON J. Kel Gartificate No. RG3RB141	
			Honolulu International Airport Honolulu, Hawaii 96819	
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Serial No. <u>2-196-644</u>

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		order No <u>202270</u>	Cartificate No. RG3R814L Honolulu International Airport	
		on file at this repair station	Henolulu, Hawaii 96819	
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Serial No. <u>2-196-644</u>

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proved Repair Si	ration
International A	Airport
ulu, Hawaii 961	618
	proved Repair S cate No. RG3R8

Serial No. <u>L-196-64</u>A Time License Signature Date Number **REPAIRS - ADJUSTMENTS - SERVICE - REMARKS** Hrs Min ful investors flow testes ulga unove Reinstalled Jud. 1031.5 millto WO # 20233B run up mere goor SMOH 31.5 9000 w AD 93-02-05 fuel miletron limited HC: 5350,2 AIR SERVICE CORPORATION FAA Approved Repair Station Certificate No. RC3R814L Honolulu International Airport Honolulu, Hawaii 96319 Page Total All Repair Data Must Rear the Endorsement of a Brought Forward Certificated Mechar) and his Rating and Certificate Number N ST be Shown. Total to Date

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Serial No.	<u>L-196-64</u> #

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an <u></u>			First Borlog
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Serial No. <u>2-196-64</u>A

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			INSPORTO M.	Certificate No. RG3R8	
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			ENGINE LOG	Serial	No. <u>2-196</u>	-64A
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toria	(00 5419		a <u><u><u>france</u> <u>my</u><u>inspection</u> was determined to be in an airwo</u></u>	a and	ERVICE CORPORT	
	• 7(-)		and: ion for further details see		Approved Repair in milicate No. Repair in July International A	- 4
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Date	Time Hrs Min	REPAIRS - ADJUSTMENTS - SERVICE - REMARKS		Signature	License Number
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		OW 55 14928 Piston plug mapth	2A due 1998	D AIR SERVI	ECORPORATION
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Serial No. <u>1-196-644</u>

Date	Tir Hrs	me Min	REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature License Number
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		i	Page Total All Repair Data Must Bea Brought Forward Certificated Mechanic Total to Date Certificate Number M.	od his Bating and

Serial No. _-196-64A

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TEXTRON LYCOMING

Date

652 Oliver Street Williamsport, PA 17701

10/02/99 Engine s/n L-196-64A was removed from service with 175.5 SMOH and returned to Textron Lycoming for inspection/repair due to metal in the filter. Engine was disassembled and inspected. Cylinders were de-glazed. Engine was reassembled replacing crankshaft with s/n 121023, turbocharger baffle, injection line p/n LW-12098-0-210, and turbo strut. Also replaced were all; bearings, piston rings, piston pin plugs with P/N 72198, attaching hardware necessary for the repair, and all perishable items. Engine was tested in accordance with Textron Lycoming specifications and is determined to be in an airworthy and safe operating condition. Additional service bulletins complied with, 475B (91-14-22), 342B (93-02-05), 528, 529 (98-18-12), 240Q, SI1267C, 1487. All pertinent data relating to this work is on file at Textron Lycoming under workorder CR99123.

END

M. A. Dugan #164524837 Repair Station EJ1R115K

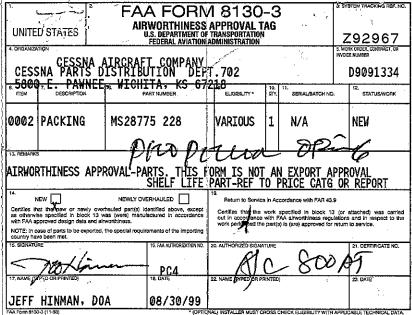
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Serial No. <u>2-196-644</u>

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			OIL. GIN SI. 1014M, SERVICED ENGINE WITH	Bats of Aex	ositece
		_↓]	100W ASTLESS DISPERSANT OR, 4W SI. 12410	, PRE-OILED	ENGINE
			\$ TURBO CHARGER. CIN SI. 142718 - GROWIND PUN		
a			ADJUSTED MAXINE & IDLE R.P.M. C/W AD 93		r husterro
			LINE INSPECTION. ALL OKAY, NEXT DUE @ 2	075.5	
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aut.	804	G.9	has been inspected in accordan	ce with	
tΠ:	562	5-G	a <u>margare</u> inspect was determined to be in an air	ion and	
			was determined to be in an air condition for further details s	worthy	
			order No. 385 449		
			on file at this repair station.	Pite a	Achrider
			REFERENCES & PUPULAS LH & MANIPOLAS PRESSURE NOG HOW PN 624972-2-DO 3	MCMO FAA Approved i	Repair Station
			MANIPOLD PRESSURE HOS	Certificate No. Pionolutu Interno	RG3R3141 ational Airport
			HON PN 624972-2003	Honclulu, Hav	
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4. ORGANIZA CESS 5800	CESSNA A Na Parts Di E. Pawnee	STRIBU	TION DEPT		_		INVOID	RK GRDER, CONTRACT, OR IE NUMBER
6. JTEM	7. DESCRIPTION	8. PA	AT NUMBER	8. EUGIDILITY	10. OTY,	11. SERIAL/BATCH NO) .	12. STATUS/WORK
0001	HOSE AY	624972	2D0340	VARIOUS	l	N/A		NEW
13. REMARKS	THINESS APPI PARTS MUST BE ACCOMPAN	ROVAL-PA	RTS. THIS F SHELF LIFE	ORM_IS_NOT PART-REF_T	A 0	N EXPORT A PRICE CATG	PPR Or	OVAL REPORT
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as otherwis with FAA ap NOTE: In ca	at the new or newly over se specified in block 13 s oproved design date and air ase of parts to be exported,	vos (wers) manuf worthiness.	actured in accordance	out in accordance	with	specified in block 1 FAA ainworthiness reg s) is (are) approved for	utation	attached) was carried s and in respect to the to sorvico.
15. SIGNATU	re boon met. RE	er	16. FAA AUTHORIZATION NO. PC4	20, AUTHORIZED SIGNA	TURE			21. CERTIFICATE NO.
17. NAME (TY	(PED OR PRINTED)		18. DATE	22. NAME (TYPED OR PI	INTE)		23. DATE
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				AIRSERVICE CORPORATION FAS Approved Repair Station Conflicate No. RG3R814L
				. Monolulu International Airport , Honolulu, Hawaii 96829
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	· · · ·		was determined to be in an air condition for further details se	annt nu	FAA Approved Repair S	TION
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Service Bulletins, Letters, Instructions & A D Notes DATE AD 02-12-07 PLEWIOUSLY YW PER MSB543A 18-08-2003 ExTERNAL FUEL INVECTAN LINES Of W By VISUAL INSPECTAN. TACH 2292.7 40 02 -26-01 ROTARY FUEL PUMp LEAKS C/W 5MOH 492,7 4098-18-12 ETT 58/1.6 I CRETIFY FUTAT THIS ENGINE HAS BEEN INSPECTED IAW AN ANNUAL INSPECTION & WAS FOUND TO BE IN AIRWORTHY LONDITION. marriel (Inna Lalera 1A 575686260 BORESCOPE #1 Eng Gty Cylinzos THEOUGH SPARK PLUG Holes 08-17-203 No Pateris Norten TACH: 2293.6 have Annabala 14 575606260 17003 histoct. eng. Compartment for - halls & security 10BBS 2337.0 Components & Lettics. Mone al1905 \$ ETT 5855 G SMON

Service Bulletins, Letters, Instructions & A D Notes 02 PRAND Oil a ROFILL Oil -19/19050 B CERTICY THAT THIS LATINE INGEDTED IN ACCORDANCE WITH A MOBIL ANAUAL IN SPECTION AND WAS DETERMINED FOR 25 18 3WOH 590 3 AKENORTHY CONDITION DATES 175410.0 5.20.7 DALL MATTIN CSu Mant CARCELL RAL OU Kin 4 tem 491905015



DATE

леление & Alc. <u>Ulease</u> A4-P 19050K Un -41 24 19050 5/6/05 I certify that this ENGINE has been inspected in accordance with a fim/UR inspection and was determined to be in airworthy condition. HOBAS 409.9 Ciel Time Total Airframe Time 6008.6 Total LE Time LE 6008.6 AP/1A. 140803209 Time Since Major O/H 68

ENGINE S/N (L): REG. NO: N800AT WORK ORDER: 2189-04-2005

134 Nakolo Place Honolulu, Hawaii 96819 Phone: (808) 834-7767 A/C TSN: 6008.6 ENG TT (L): 6008.6 TSMOH (L): 689.9 HOBBS: 2489.9

Left Engine Entries

(2) Reinstalled Baffing material around left engine with new hardware. Work performed by Pete Salvador.... (10) Complied with SB 1492 piston pin plug wear on right engine by inspection of filter screen. No defects noted. Work performed by Pete Salvador.... (19) Complied with AD.2003-14-03 Romec rotary fuel pump on left engine by torque check of relief valve screew IAW SB529B (23 in/lbs) and inspected. No defects noted. Work performed by Pate Salvador.... (19) Complied with AD.2003-14-03 Romec rotary fuel pump on left engine by torque check of relief valve screew IAW SB529B (23 in/lbs) and inspected. No defects noted. Work performed by Mark Hervey... (51) C/W LEFT ENGINE Lycoming S.I. 1492C "Oil filter and screen inspection". No defects noted, installed new oil filter p/n CH48103 and new suction screen crush gasket p/n MS35769-21. Work performed by Pate Salvador... (53) LEFT ENGINE Drained oil and serviced with 8ds Aeroshell Engine Oil SAE-50-W100. Work performed by Mark Hervey... (55) LEFT ENGINE Cleaned, inspected, gapped, tested all 8 spark plugs and reinstalled, with anti sieze compound, new copper gaskets p/n M-674 and torque to 420 ins ibs. run up checks good. Work performed by Mark Hervey.

DATE: 5/6/2005	SIGNED: Tu MI	1. Im	Work Order: 2189-04-2005
	Darrell Dycus, A&P: 2711627		Printed by EBis 3 (datcomedia.com)

ENGINE MODEL: ENGINE S/N (L): REG. NO: N800AT WORK ORDER: 2204-05-2005

Airframe & Powerplant Service, Inc.

134 Nakolo Piace Honolulu, Hawaii 96819 Phone: (808) 834-7767 DATE: 5/6/2005 A/C TSN: 6008.6 ENG TT (L): 6008.6 TSMOH (L): 689.9 HOBBS: 2489.9

Left Engine Entries

(1) Removed left magneto p/n 10-682555-13 s/n B179901G. Installed left magneto p/n 10-682555-13 s/n 23507K. Timed to engine and secured. Run up check good. Work performed by Pete Salvador.

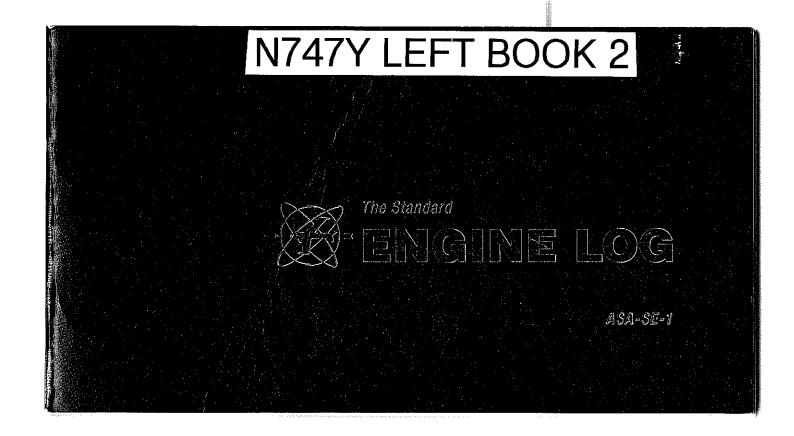
DATE: 5/6/2005

Darrell Dyck / 27 11627

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Vork Order: 2204-05-2005

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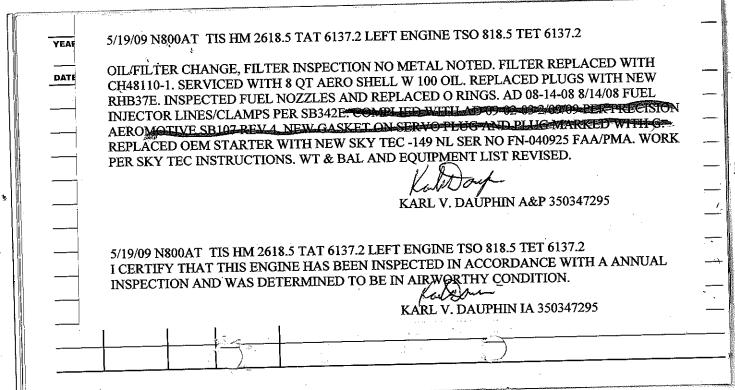


Engine Record General Information		
Manufacturer <u>XCOMiNG</u>	Model	<u>D-360-C1ALD</u>
in al IUA	T	rpe Certificate
Serial	NBOOAT LEFT	-
This engine is currently installed in air		
Minimum Octane Fuel	Oil Grade: Summer	Winter
Magneto Time	Point Setting	Firing Order
Snark Blug Gan		
Manufacturer recommended overhaul	at 2 hours	
Manufacturer recommended overnaul	at	

Notes BOOK. 2. ENGINE INSTALLED 4-27-44 H.M. 1800 ETT 53187 TOMO 0.0

Description of Inspections, Tests, Repairs and Alterations TOTAL RECORDING TODAY'S Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair YEAR: FLIGHT TIME IN TACH SERVICE Facility. (See back pages for other specific entries.) TIME H.M DATE Allenn, · ARPEDSON NO METAL PARTICLES. SERVICED WITH AERO-606930111 TAT 2550 750k 750 SHELL W 100 AD OIL BRT. AAD 05-26-10 DVA NO ECI CVLS. 1350347245

Description of Inspections Test RECORDING | TODAY'S TOTAL YEAR: 08/282006 N800AT, P68C-TC TIS HOUR METER 2566.4TAT6085.1 DATE Left Engine Lycoming IO360 C1D6 s/n L-196-64A TED 766.4 7ET 6085 / Complied with A.D. 02-26-01 Fuel injection lines, by inspection for chaffing and wear at clamps. No defects found. Next due 2666.4. Changed oil and filter CH48110 and serviced with AS w/100. Cut and inspected filter, No particles found. Gend 1/ms fip 27,1627 I CERTIFY THAT/THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH X ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION, KÁRL V. DĂUP TA 350347295

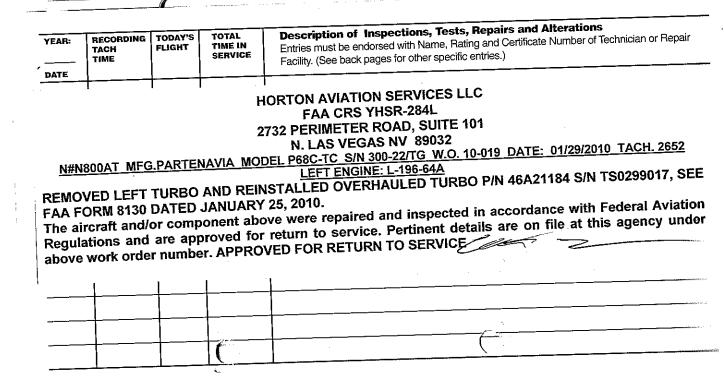


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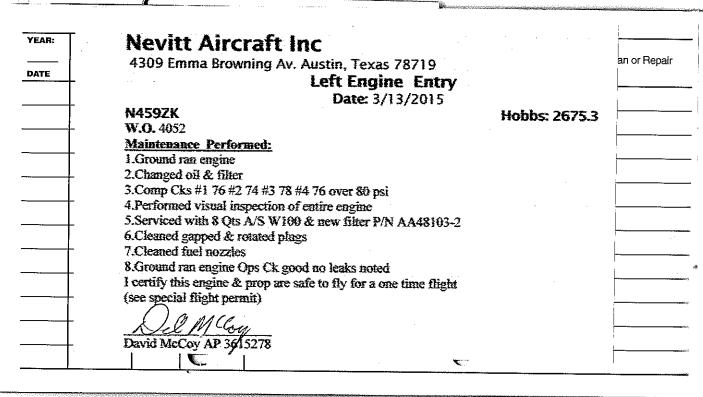
This tag certifies that Sky-Tec starter Model <u>149-NL</u> SN <u>FN-040925</u> was produced by Sky-Tec order the authority of FAA PMA No. PQ0852SW Supplement No. 1 per CFR14 Part 21 in accordance with Sky-Tec's FAA-Approved Fabrication inspection System (CFR14 Part 21 §21.143) and conforms to the relevant FAA-approved drawings. This part has been determined to be airworthy. For installation eligibility see www.skytecair.com/eligibility.htm.

Starter Installed on SALV (Aircraft) (Mechanic) Date of Installation) Form CC1108-1 and the second s

	RECORDING TACH TIME	TODAY'S FLIGHT	TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
DATE				ORTON AVIATION SERVICES LLC FAA CRS YHSR-284L 32 PERIMETER ROAD, SUITE 101 N. LAS VEGAS NV 89032
				LEFT ENGINE: L-196-64A
nd/or (nd are	component	above v for retu	were repai irn to serv	eft engine I/A/W the manufacturer's maintenance manual. The aircraft ired and inspected in accordance with Federal Aviation Regulations rice. Pertinent details are on file at this agency under above work TURN TO SERVICE



ATE	ENGINE S/N (I REG. NO: 800, WORK ORDER 4728-03-2010	Α.Τ ર :	Tallaha	apital Circle SW ssee, Florida 323 850-576-3515	310					SMOH (L): 865.2 HOBBS: 2665.2	epair
	plugs.Installe Airmotive R	ed new spai SA-5 series 3 480D Oil	er(8 qts. k plug ga fuel injec ilter/scre	tion servo. Fo	48103-1 filter)In cked L/E magnet ound "G" stampe spectionC	ed on hex plug. /W Lycoming S	No further a I 1492D Pisto	ction required on Pin Wear Ir	at this time spection.OK.		
	"I certify that t has been prov	nded for the a	s been ins ircraft owi	SIGNED:	J.	al inspection and	I a list of discrep		Work Order	: 4728-03-2010	
				Fred Davis, IA:	2832998			Printec	Dy EBIS 3 (0)	atcomedia.com)	
 				Fred Davis, IA:	2832998			Printec			
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				Fred Davis, IA:	2832998	·		Printec		-	· · · · · · · · · · · · · · · · · · ·



N459ZK 06-01-2016 Left Engine Lycoming L-196-64A Hobbs: 2,676.8

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DAT

Changed oil, (Aeroshell 100 Plus), and oil filter. Replaced all hydraulic units, and All push rod sockets. Replace 1 thrust button. Replaced all rocker box cover Gaskets. Replaced all rocker valve rocker gaskets. Replaced all shroud Tube seals. Replaced one push rod shroud. Replaced all push rods, and adjusted All valves between .028, and .080. Replaced several exhaust studs, and nuts. Replaced several spark plugs with tempest spark plugs. Replaced all exhaust and intake gaskets. Ground rail engine, and all systems normal. aunt Lawrence H. Castor A&P 465980111

YEAR:	RECORDING TACH TIME TODAY'S FLIGHT TOTAL TIME IN SERVICE Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repairs Facility. (See back pages for other specific entries.) Total	air
_	N747Y Left Engine 01-24-2017 Lycoming L-196-64A Hobbs: 2,678.9	_
_	Engine Total Time Since Overhaul: 878.9	-
_	Compression, Number-1- 76/80, Number-2- 75/80, Number -3- 77/80, Number-4- 75/80.	
	Replaced engine air filter.	_
_	Complied with AD 2015-19-07 fuel injector lines, according to AD.	_
_	Complied with AD 2003-14-03, fuel pump torque, according to AD.	
-	I certify that this engine has been inspected in accordance with an annual inspection,	_
11	And was determined to be in airworthy condition,	
_	Lawrence H. Castor IA465980111 aunice R. Castan	_

EAR:	RECORDING			Description of Inspections, Tests, Repairs and Alterations
	TACH TIME	FLIGHT	TIME IN SERVICE	Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair

N747Y Left Engine 01-06-18 Lycoming L-196-64A Hobbs: 2,684.3

Engine Total Time Since Overhaul: 884.3

Compression: 77/76/77/76

Complied with AD 2003-14-03, by checking fuel pump torque, according to AD. Changed oil (Aeroshell W100 PLUS, and filter. Replaced all 17 hoses on left Engine. I certify that this engine was inspected in accordance with an annual Inspection and was determined to be in airworthy condition. Lawrence H. Castor IA465980111 N747Y Left Engine 01-20-19 Lycoming L-196-64 Hobbs2,690.4 Engine Total Time Since Major Overhaul-890.4

Compression:78-75-77-76.

Changed oil(Aeroshell W100 Plus), and filter. Complied with AD 2003-14-03, According to AD. Replaced fuel pump with overhauled unit. Replaced 4 rocke Box gaskets. Replaced oil screen gasket. I certify that this engine has been Inspected in accordance with an annual inspection, and was determined to be In airworthy condition.

Lawrence H. Castor 10465980111-