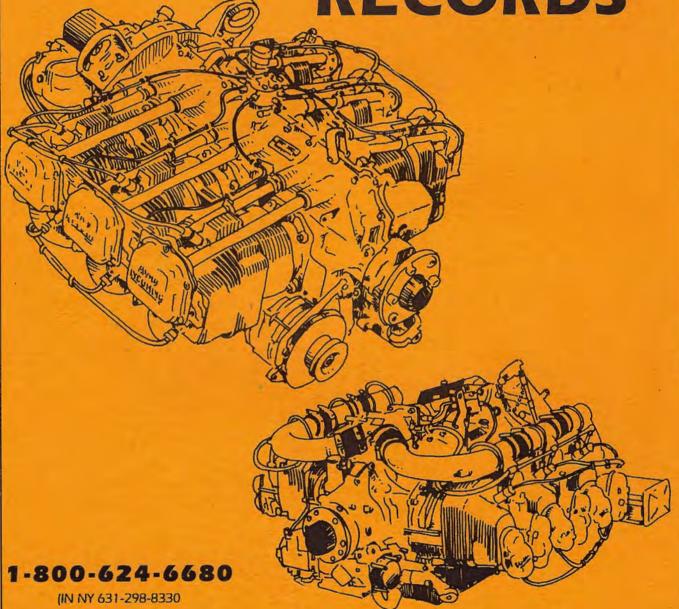
ENGINE MAINTENANCE RECORDS



TELEDYNE MATTITUCK SERVICES, INC.

410 AIRWAY DRIVE, MATTITUCK, NY 11952

TELEDYNE MATTITUCK SERVICES, INC./ Limited Piston Engine Warranty

Effective 7-1-2010, Teledyne Mattituck Services, Inc. (hereinafter "TMS") makes the following warranty to its customer, subject to the limitations, conditions and exclusions set forth below.

LIMITED ENGINE WARRANTY - For a period of THREE (3) Years after date of delivery to customer, or 300 hours of operation, whichever occurs first, TMS shall repair or replace, at its option, any aircraft engine, which is found to be defective, to TMS's satisfaction, within said warranty period.

LIMITED ACCESSORY WARRANTY - Teledyne Mattituck Services, Inc. warrants the accessories for the engine (Fuel System, Magnetos, Starter and Alternator) for ONE (1) YEAR from the date the engine is first placed in service.

The LIMITED WARRANTIES cover 100% parts and labor on engines and accessories subjected to normal use and operated in accordance with normal maintenance procedures. All maintenance required in the maintenance schedules must be noted in the engine logbook when maintenance is performed or the warranties are VoID.

Replacement parts supplied for warranted engines still covered by manufacturer's warranty are supplied on an exchange basis. TMS will pursue warranty claims with the manufacturer on the owner's behalf. Any allowance by the manufacturer will be credited to the operator's account.

The repair or replacement of any part under the foregoing warranty shall not extend the periods or warranty coverage set forth above. TMS reserves the right to change the price or specifications of any engine or part at any time.

CONDITIONS AND PROCEDURES FOR OBTAINING WARRANTY WORK – The foregoing warranty shall be effective only if the engine or component to be serviced is returned to TMS's facility at customer's expense, together with particulars in writing of the nature of the defect. The customer or his representative should contact TMS for verification and authorization of warranty prior to return and/or repair. Written authorization must be obtained from TMS before repairs covered by warranty can be performed other than by TMS. In no event shall allowable labor costs exceed local published shop rates. The foregoing warranty shall apply if and only if the engine has been properly installed and maintained in accordance with current approved standards of the FAA and current recommendations of the manufacturer as specified in applicable factory manuals and service bulletins.

Work Order No. ____
Engine Serial No. ___

33589

L-11422-61A

FORM WAR-04 REV.(JULY 2010)

The performance of recommended inspections and maintenance must be documented by logbook entries which must accompany any engine returned for warranty work. Defects must be discovered within the warranty period and TMS must be given prompt notice thereof in writing, within ten (10) days after discovery.

LIMITATIONS, EXCLUSIONS, AND DISCLOSURES – TMS shall not assume freight charges, transportation or delivery expenses, costs, or airframe repairs, all of which are excluded under this warranty. TMS does not warrant parts, materials or services supplied which are covered by manufacturer's warranty. This warranty shall not apply to any engine which has been subject to misuse, neglect, accident or damage from the elements, or which has been installed, repaired or maintained or altered in any manner which, in the judgment of TMS, has had an adverse effect on the engine or part. This warranty shall not apply to any engine which as been operated under conditions which exceed the manufacturer's recommendations. This warranty shall not apply to any engine which has been repaired or altered, in any manner other than by TMS, or its representative. The use of fuels and/or fluids not specifically approved by the engine's original manufacturer may void this warranty.

THE FOREGOING WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES OR REPRESENTATIONS, EXPRESS OR IMPLIED ARISING BY OPERATIONS OF LAW OR OTHERWISE, INCLUDING WITHOUT LIMITATION THE WARRANTY OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE WHICH WARRANTIES ARE HEREBY EXCLUDED. TMS liability hereunder shall be limited to the repair or replacement of any engine or part found to be defective within the applicable warranty period as set forth above. IN NO EVENT SHALL TMS BE LIABLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES OR ECONOMIC LOSS OF ANY NATURE WHETHER ARISING IN CONTRACT OR TORT, INCLUDING STRICT LIABILITY IN TORT OR NEGLIGENCE ON THE PART OF TMS. The foregoing limitations and exclusive with respect to implied warranties and the exclusion of incidental or consequential damages may not apply in those states which prohibit such limitation or exclusions. This warranty gives customer specific legal rights, and the customer may have other rights which vary form state to state.



Airway Drive Mattituck, N.Y. Tel: (631)-298-8330

WORK ORDER Work Order No. 33589 Customer Columbiat	Als.
Part No. 9To-540-AHIA Serial No. L-1143	2-61A
1 11 : []	3 4 . 41 11 -
Nomenclature LyCoMiNO ARCVASA Description of work performed New LyComing CyLing ENCOMING THE PROPERTY OF THE	ENGINE T SULLING
Description of work performed Pew Lycowing Cylin	Dev 1954 & month to
Qu 4097-15-11, 2004-05-24, 2004-10-14 TO	MFG NEW PARTS
CAMPON 1-15-11, 2007-05-19, Sect 10-11	ITS AND TEST RUN
1/11/40 7008-17-01 2001-03-03	
All work performed in accordance with applicable ma	hutacturer smalltenance
and parts manuals.	Dell- VIIIIVV
Date	TARREST TARREST
TELEDYNE MATTITUCK SERVICES, INC. FAA	A Repair Station T10R507Y

WARNING

 When installing drive gear or driver onto magneto, torque nut provided to 120 to 320 inch lbs.

Use only the installation hardware provided. Secure nut with appropriate cotter pin.

FAA-PMA Approved

This magneto was manufactured from all new components in accordance with 14 CFR Part 21.303h and is airworthy. This magneto is FAA-PMA approved for applications listed in Unison Industries' L-1318 Document in the F-1100 Master Service Manual. For LASAR® Magnetos, see L-1500 Manual.

Enter magneto model, serial number, and date of installation, and attach this tag to engine logbook.

Magneto Model No. _ 6.360

Magneto Serial No. 08/2/933

Date of Installation

L-1543-A

ENGINE MAINTENANCE RECORDS

Log No	
Aircraft Registration No. N5369S	
Engine Manufacturer Lycoming	
Model T10-540-A1HA	
Serial No. L-11422-61A	
Date installed on aircraft 11-1-2018	
Time Between Overhauls (TBO)Hours	
If used on multi-engine aircraft:	
☐ Right ☐ Left ☑ Front ☐ Rear	

This is to certify that the engine described hereafter has been overhauled to manufacturer's new part limits by Teledyne Mattituck Services, Inc. Tested per FAA approved Process Specification 1012C. Engine disassembled, cleaned, and inspected in accordance with manufacturer's instructions. All steel parts magnafluxed. All Applicable Airworthiness Directives are in compliance. The engine, with respect to the work performed is airworthy and approved for return to service. A description of these repairs is on file at this agency under: JOB NO. 33589 DATED 7- 0cT 10

MFG. LYCOMING MODEL TIO 540 A HIA Serial No. 1-11422-61A Time in svc. 1857.7 HRS Cylinder Type NEW LYCO NITRIDE TELEDYNE MATTITUCK SERVICES, INC. FAA REPAIR STATION #/T10R50 AIRWAY DRIVE, MATTITUCK NY Authorized Signature FORM RS-37 REV.(MAY 2008) The accessories listed below were New or Overhauled as indicated in the status column and installed on the engine. Overhaul records for these overhauled accessories are in

The accessories listed below were overhauled by Teledyne Mattituck Services, Inc. in accordance with applicable manufacturer's service and parts manuals and installed on the engine:

Serial No. Part No. Item Flo-div. 2524232-2 0307424

TELEDYNE MATTITUCK SERVICES, INC. FAA REPAIR STATION T10R507Y

W.O. NO. 33589 DATE 2007 10

an envelope in the back of this logbook.

Item	Part No.	Serial No.	Status
RTMAG	6360	08121933	N
LT MAG	6361	09080529	N
STARTER	149-24Pm	F4P.341002	1
Fuel pum	0 200 = 5002	NFN034FP/REV	N
Turbocha	rger 466011	-900 2 GLR00150	0
ConTrolle	r 48105	8-0007 GDN 00247	0
WASTE G	ATE 47095	4-9009 BFN 22080	0
reliet va	lve 47094	4-9040 J10136	0
SETVO	2576 554-2	70276607	0
ALTA	E 3FF10300	AA K080868	No

Authorized Signature

ge No	- 			
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
- 18				TOTALS brought forward from previous page
		STELT ALM	ATION INC	
	=			···
		1/2010	1976 N5369S	Piper PA-32R-301T Aircraft Total Time: 1868.1
	Insta	alled Reiff en	gine preheat	system, Turbo XP system.
			eg/ IA 3/114/4	85 85, Michigan (269)-651-5431
	·	- C	<u> </u>	<u>. </u>
BA	RTELT AV	IATION, IN	c.	
	tablished	1976		
11/	12/2010	N5369S	Piper	PA-32R-301T Aircraft Total Time: 1868.2
Lyc	coming TIO-5	40-AH1A S	/N: L-11422-6	31A TSOH: 10.5
Cor	mplied per Ly	coming Sen	rice Bulletin 4	80E, Oil and Filter Change, Suction Screen Inspection, No defects
— note	ed. Installed	new CH4811	0-1 filter. Add	ded 11qts Aeroshell 15W50. Run-up. No leaks noted.
—/	7	-71	1.1	/
Jef	emy Hierholz	e - IA 3114	485	(269)-651-5431
1 0.			†	 -
		_		
	_			
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		_		
			-	
			-	<u> </u>
ļ				SUB-TOTALS this page
				TOTALS—Carry forward to next page

Page No. TACH OR RECORDING METER TOTAL TOTAL TIME TIME DESCRIPTION OF WORK PERFORMED-DATE SINCE SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK SERVICE OVERHAUL TOTALS brought forward from previous page BARTELT AVIATION, INC. Established 11/11/2010 N5369S Piper PA-32R-301T Aircraft Total Time: 1868.1 Installed Reiff engine preheat system, Turbo XP system. Jeremy Hierholzer IA 3/1 Bartelt Aviation, Inc. - Sturgis, Michigan (269)-651-5431 BARTELT AVIATION, INC. Established Aircraft Total Time: 1868.2 Piper PA-32R-301T 11/12/2010 N5369S TSOH: 10.5 Lycoming TIO-540-AH1A S/N: L-11422-61A Complied per Lycoming Service Bulletin 480E, Oil and Filter Change, Suction Screen Inspection, No defects noted. Installed new CH48110-1 filter. Added 11qts Aeroshell 15W50. Run-up. No leaks noted. Je emy Hierholze Bartelt Aviation, Inc. - Sturgis, Michigan (269)-651-5431 Date: 2-4-11 Reg: N5369S Time: 1913.7 Hobbs W/O: 1014 Engine Entry (603) 298-6555 Removed #4 exhaust stack riser and sent out for repair. Reinstalled riser following repair by Dawley Aviation, Inc. All operational and leak checks satisfactory. All work performed in accordance with applicable sections of manufacturer's maintenance manual. This aircraft is airworth pip reference to work performed and is approved for return to service. Jason A. Archambeault, for Signal Aviation Services, Inc., CRS # SNAR711K Reg:N5369S Date: 4-29-11 Time: 1924.5 Hobbs Engine Entry W/O: 1069/1079 (603) 298-6555 Removed fuel injector servo for compliance with AvStar service bulletin AFS-SB6. Reinstalled AFS-SB6 compliant servo following repair by AvStar Fuel Systems, Inc., CRS # V1RR580Y, work order # 132961. Set idle and mixture as required. Tightened fuel flow sending unit to engine driven fuel pump to prevent fuel from leaking. Ran engine. Drained hot oil. Oil sample taken for analysis. Removed oil filter and cut open for inspection. No contaminants noted. Installed new filter P/N AA48110-2 and serviced with 12 quarts of Aeroshell 15W50 oil. All operational and leak checks satisfactory. All work performed in accordance with applicable sections of manufacturer's maintenance manual. This aircraft

is ainworth in reference to work performed and is approved for return to service.

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
7/19/2011	1977.1	119.4	1977.1	Ran engine & drained the oil & chichel for sectioned
			_	eted . Installed new filter : Nodel 11 ats Midden Revislell
15 650	oil desen	HU I best	W Bywood	ig 1 MM Cleaned & reinstalled the coroling Ran
	a checked			
20	- RM	e 2	2423012	ASP. Edmonds Rucraft Service, Newport, NH
9/2/2011	2008.0	150.3	2008.0	Replaced ful eye to noggles of Tubebarajector
	C 58 09		Ran & -	
17	sm	1	2242 3072	
10/24/2011	2037.3	179.6	2037,3	Ran the engine, drawned the oil & checkel for sections
				respected et. distalled a new felter. Robbed 12 ars Newshell
15 W50 a	il. dr	aired oil	cooles &	turbo surp.
	Cleaned	oute p	ortion of	starter drive & Subrecated it is selected agray
	Rem en	gine &	lead c	hechel it.
//	and	2242	13092 AS	P. Edwards Acresaft Service Newport NH.
01/06/201	2044.6	186.9	2044.6	Performed an Annual Suspection evaluating:
	-			for sedement. Drained the ail wolers. Drained the
turbo s				screen, cleaned & enspected it. Reinstalled it
				The oil filter, opened & expected it. Chicked for
				felter per Zyco 52 183 & installed it. Replaced
				turbo sump. Repositioned & secured the
ail too	les hose	s, tul	o oils	upply a return hoses, waste gate to contrale
				· Nolded 12 Qt Newshell 15 w50 oil Oiled
4				uf starter to raise oil pressure per Typo
SI 124	11 C.	Oil che	nge so	idal in accordance w/ Tyeo SB 480E and Part I
				SUB-TOTALS this page

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2044.6 186.9 2044.6

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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
	2044,6	186.9	2044.6	TOTALS brought forward from previous page
1/06/2012(0	ontinued)	eylerdes	& tento	adapter pipe. Visually inspected recordabled toqued a
				8 B.). Removed the right side calcust support brocket,
grit blas	tel s pa	ented it.	Reinsta	lled the bracket. Disconnected the wesson pipe support
eable, 1	emoval t	he heat,	nuff & on	ually checled the assover/ heater pipe, Reinstalled &
	support			
				served & inspected the housery, wil, condenses, georg
				points & cam wear (Slick 5B2-08) Checkel enternal
				effect housing seals. Cleaned the mounting surpace a alled them w/new gesluts. Installed the magnetes is
				(he engine (Fyco SB 183A). Checked retout temeny of
				torque was within limit of Slies 583-808. Chuchu
				gear per Lyco SI 1437.
				sourgation relief value tested & reinstalled it
tested t	he mag	neto p	esseny.	ation flow notes per Zyco SB568 and Stick SB1-
				PH sight and 28 CFPH left. Revocated connected
& seco		1 2 2		essengation hoses.
2	1	1	1	& orientation of the magneto primary deads
riposi				reconnected the P-leads to their respective magne
for co				of a internal conductor as well a for shorts
*		V		supported the ignition leads & trimmed the
				#3. Richard these 2 for continuity & shorts
	1			chet to support the horner between the mags.
		i.		red & behicated the termines & reconnected the
				ends (Fyco SI 1365).
	2			igs cleaned, inspected gapped to tested them.
Kolated	positio	n den	stalled-	SUB-TOTALS this page
				TOTALS—Carry forward to next page

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and damaged

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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
	2044.6	186.9	2044.6	TOTALS brought forward from previous page
01/06/2012			nected, re	routed, reconnected & secured the oil temp, tachomete
				theater system. Revorted the power wining to the oil
pon ha	ters, trim	wit to.	length 1	reconnected it. Repositioned & clarged most cylender
				a cornectes cord, connected it and secured the commedi
to the a	i fill	tile 1		
Re	moved th	clarys	secures	the engine breather to the upper engine mount should
				system, ail change, exhaust, magnetis & baffles
were do	1			co. 57 1080C.
				for leads Performed full new up & checked operator
of engin	control	propel	les/gouere	, full power RPM, ful flow, MP. ail temp & pusaure,
EGT TIT	& CHT.	Chechu	nagni	to drop off per Zyco SI 1132 B. Visually chicked proger
	om 1			es El . I s . It Com Mr. 4 MM
		2247	3077 H	&P. Edmonds Aircraft Service, Newport NH
1/20/12	2051.4	193.7	2051-4	Removed the start & sent it to Sky tell for report
	Last and			& chickel operation See Sky Tee repair document of
1/11/12	a back	of this	manual	
7	m	2.	22423012	ASP. Edmonds Awardt Service, Newport N4
8/25/12	2103,0	245.3	2103.0	Resealed the statled fetting on the feel purp.
20	ne	22423002	48P. Edm	onds Aveaft. Service. Neighbort, NH. 03773
9 9				
9/13/12	21300	272.3	2130.0	Drawel the ail & checked for sedement. Removed on feller
opened s	inspectal	it. Nold	ld 11 aks 1	Rewshell 15450. Inspected & enstalled a new ail filter.
	Removed .	sky ted s		N 149-24PM, SIN F4P-361004 and installed Styles
M/N 149-1	16/ec 51	W FAL-32	228. per	Sky ter installation instruction. Removed accessed
	2130.0			TOTALS—Carry forward to next page

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
	2130.0	272.3	2130.0	TOTALS brought forward from previous page
19/13 (00	itmuel)	mountary	lug "D"	to clear air conditioney conquessor bracket Tremmed
		~		n new terminal & connected then to starter thechel starte
				d state operation
				lials
21				Edmonds Arrend Service, Newport NH
/28/12	2178.5	320.9	2178.5 No	is notes drained ail & chickel for sedement. Drained turbo
surp, an	d both or	cooles.	Removal	or fetter, opened & expected. Visually checked a new
oil felt	er & inste	lloit 1	Idded 11 q	monto Newshell W15W50 and one bottle LW-16702
			engine	
2	mh	C 2242	1072 ASP	Edmonds Aircraft Sarvice, Newport NH
1/22/2013	2192.0	334.3	2192.0	Performed an Runual Suspection.
	Drained	oil & c	echel fo	redement. Decend oil from ail coolers & turke
sump.	Removed	ail for	the oper	ud & inspected it (58490E). Fulrected base of new
oil fel	ter per -	SL 183 &	enstall	dit. Removed draw value, cleaned, enspected,
/				ed it Removed oil suction screen, cleaned, as
				e screen w/ new goshet. Removed the breather
				abld, cleaned & enspected it. Reassembled &
rent	talled	the sepre	arator	Applied fiberglass sleeving over portions of the
Turbo	harger	ail se	Jupy &	ail return hoses to reduce chafing. Replaced &
wasti	gate	draw 1	rose & a	applied fresleeving over it. Added 11 gts Newskill
15 W5	o ail.			764 . 107 . 267 ., 100 177 120
		/		SI 1191A. #1-16, #2-7/80, #3-76, #4-79/80, #5-7/80, #6-7/80
	1			voles. Checked the enteriors w/ a borescope. Removed to
			1	al the value caps, retainers, springs norther aims.
Checka	l value	train 1	ration ((583018) Cherled push wed showed tuby their sea
				SUB-TOTALS this page

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
	3/22/B(Co	tinud)	Sunatean	TOTALS brought forward from previous page
and rel				flages down on the water cover scenstalled them we new
A 1	-	1 1 1 1		Cardware
	Visually	chechul	the und	with sight. Removed the on fetter & support brackt.
Repositu				#5 intake pipe V sually chechel the compresser when
				I installed a new air feltor. The next feller change per
AD 84-26				fetter replacement complex of gortions of SI 1002.
10		1		system. Checkel the expector distribution tube and
	1	L		14-07) and 5B 342 F (Paper 56578C). Kerrowd the feel in
-	1			I a inspected it. Replaced the seals a reinstalled in
				cleaned & enspected them and newstall then
pir i				Part + Promerce 10 0 4 40 15/16
land	.0			shound system. Removed, cleaned & inspected the "V"
	,			or between the pipe from cylerder "3 & the slip join
		L		8 B. Visually checked the turbine wheel of the
4		~		my Q the weste gete, repositioned it & secure
	1			and per St 1238B. Replaced the lock washer on the
lower	bolt th	at attack	us the to	whene housery to the support bracket & secured
				broud tube from the heat exchanges (www.
				et. Reenstalled the heat shroud.
A	_	· ·		opened & inspected their per our 100 hour inspecte
Shir SB.	2-80 C a	d Slies	SBI- 88	B (Tyeoming SB 568). Checked the housengs, will, gear
points	& cond	nsen. (hickel &	set point gap / E-gay, reassembled & internally
timed t	he mag	neto.	Romoved	the empulse coupling from the left magnets,
			-	cted it Chicked flyweights per Slies 5B 1-98A
				constalled it on the lift mag. Cleaned & visually
Chierr	the,	nagneto	moun	ting areas checked Engine timing marks per
		334.3	-	SUB-TOTALS this page TOTALS—Carry forward to next page

TOTALS—Carry forward to next page

334.3

2192.0

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
	2192.0	334.3	2192-0	TOTALS brought forward from previous page
/22/13 (Ca				lender & speen the engine w/ the starter per 57 1241C
The abou	« inspec	lions en	clude Z	he riccommediations of Fycomy St 1080c & part I of
SI 1425	0			
40	Kar the	engine	& checker	I for leaks. Ran at again & checked operation of
the eng	ine cont	all me	greles &	prop/ governor. Chichel ergene full throttle RPM,
tuckom	eter C	hickel.	idle RI	temperature & CHT. Chichel accurage of the
				ASP. Edminds Aircraft Service, Mergant NH
9/5/13	7260,6	402.9	2260,6	Run origine then drained wil & declar for redent
Removal	al felle	, opened	& erope	etal it. Rolded II gits Newshell W15 W50. Res engere
				decled the ful expection distribution tube &
				I erspecter due by 2360.6 hours, hour meter
	ome	224230	272 Ads.	Edmonds Average Service, Newport NH
8/16/13	P		y + .	
0/10/13		1		I men 22423092 ASP Edmonds Averift Servi
12/23/13	2323.9	466.2	2323,9	Brained oil & Auchal for sedement. Drawned and
from	both a	il cooles	d turbe	sunp. Removed all fells, opened & inspected it
shistali	ed a new	felter. 1	olded 11	quarte Newshill 15 w. 50, Ran engin & checked for
leals	Dresser	I the p	eap black	
2	ams	2242	3072 ASP.	Edwards Aircraft Service, Newport NH
				SUB-TOTALS this page
	2323.9	466-2	2323.9	TOTALS—Carry forward to next page

June 6, 2014 N5369S PA32R-301T 2357.3 hour meter and total time 499.6 SMOH

Removed engine due to engine mount repairs and reinstalled it following those repairs.

Drained the oil and checked for sediment. Drained the turbo sump. Drained the oil coolers, removed and flushed them out. Reinstalled the oil coolers, reconnected and secured the hoses. Removed the oil filter, cut it open and inspected it. Visually checked a new filter and installed it per Lycoming SL183. Removed the breather air/oil separator, disassembled, cleaned and inspected it. Reassembled the air/oil separator and reinstalled it. Removed the oil fill tube, cleaned, inspected the seating area in the crankcase and reinstalled it with a new gasket. Visually checked the oil drain back tubes including clearances per Lycoming Sl1487. Added 11 quarts Aeroshell 15W50 oil.

Checked compression (Lycoming SI1191A), readings as follows: #1-77/80, #2-77/80, #3-77/80, #4-76/80, #5-77/80, #6-75/80.

Visually checked the cylinders. Checked the interiors of the cylinders with a borescope. Removed the rocker covers and removed gasketing from them. Checked the rocker arms, valve springs, caps and retainers per Piper 400 hour inspection. Checked valve train motion and rocker arm motion. Reinstalled the rocker covers with new gaskets.

Visually checked the induction system. Checked the alternate air valve. Removed the air filter, filter box, duct and heat shield. Visually inspected the induction air box, inlet panel and air duct that crosses the front of the engine. Disconnected the manifold pressure sense hose and removed the duct to the fuel servo. Checked the compressor wheel, visually and for freedom of rotation. Reinstalled the ducts, alternate air valve assembly and manifold pressure sense hose. Installed a new air filter (next change per AD 84-26-02 due in 500 hours) and reinstalled the air filter housing.

Visually checked the engine fuel system. Removed the injector nozzles, cleaned and visually inspected them. Cleaned and visually checked the fuel distribution lines and checked them per AD 11-26-04, Lycoming SB342G and Piper SL578B. Removed the fuel inlet screen from the servo, cleaned and inspected it. Reinstalled the screen with a new "O" ring. Removed the fuel servo as part of the engine mount repair and reinstalled it with new gaskets following reinstallation of the engine. Installed the injector nozzles per Lycoming SI1275C and reconnected the distribution tubes.

Visually checked the exhaust system. Checked the heater/crossover pipe and inspected the heater muff. Removed the turbocharger, waste gate and riser to cylinder #5 as part of the engine mount repair. Installed turbocharger support bracket after reinstlling the lower attach stud. Cleaned mating surfaces of the slip joint between the turbocharger inlet pipe and the riser pipe to cylinder #3 as well as the mating flange of the riser pipe to cylinder #5. Installed the riser pipe to cylinder #5 with a new gasket. Installed the turbocharger assembly and piping with a new gasket at the junction between it and the riser pipe to cylinder #3, Installed the "V" band clamp at that junction and torqued it. Installed the sway brace between the engine and the turbocharger assembly. Removed the turbo controller and reinstalled it following reinstallation of the engine.

Removed the magnetos, opened and inspected them in accordance with a 500 hour inspection (Slick SB2-80C). Checked the coils, points, gears, distributor blocks, condensers and housings. Baked/relubricated the distributor bearings. Checked items due for inspection of presurized mags per Slick SB1-88b and Lycoming SB568. Reassembled the magnetos, setting internal and point timing/gap and checked operation on a run-up bench. Removed the impulse coupling, disassembled, cleaned and inspected it in accordance with a 500 hour inspection (Slick SB1-86C and SB1-98A). Installed a new impulse coupling on the left magneto. Cleaned the mating surfaces and installed the magnetos and magneto adapter plates with new gaskets. Checked engine timing marks per Lycoming SI1437 and timed the magnetos to the engine (intent of Lycoming SB183A) and torqued the retaining hardware in accordance with Slick SB3-80B. Checked retard timing of the left magneto. Removed the magneto pressurization hoses, fabricated new ones using the existing ends. Pressure tested the new hoses and installed them.

Cleaned and visually checked the ignition wires. Checked for continuity of the shields and internal conductors as well as for shorts between them. Cleaned, lubricated (Lycoming SI1365/Bendix SB597) and reconnected the wire terminals. Repositioned and secured the wiring clear of the left oil cooler bypass valve.

Checked the function and orientation of the magnetos switches and primary leads and connected them to their respective magnetos.

Removed the spark plugs, cleaned, inspected, gapped and tested them in accordance with Lycoming SI1042Z. Rotated position and installed the plugs with new gaskets per the Lycoming Instruction.

Checked security and general condition of the starter and its wiring.

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Removed the alternator, disassembled, cleaned and inspected it. Greased the slip ring end bearing and reassembled it. Checked security and shimming of the alternator mounting bracket per Lycoming SI1270A. Reinstalled the alternator. Visually checked the drive belt, installed and tensioned it per Lycoming SI1129B.

Visually checked the baffles. Tightened the tie rod between the front and rear cylinder wrap around baffles on the left side of the engine. Replaced the lower baffle tie rod on the right side. Checked clearance between the tie rods and the oil drain-back tubes per Lycoming SI1487.

Cleaned and visually checked the exterior of the engine.

Cleaned and visually checked inside the crankshaft bore. Cleaned and inspected the exterior of the exposed portion of the crankshaft.

Disconencted the controls, cleaned and inspected the cables and rod ends. Reconnected the controls and adjusted their rigging.

Disconnected the wiring to the engine, cleaned and visually checked it. Reconnected the wiring following the engine reinstallation.

Disconnected, cleaned and visually checked the plumbing between the engine and firewall due to engine removal. Reconnected and secured it following engine reistallation. Cleaned and inspected the plumbing that remained on the engine. Removed or repositioned metal tags on manufactured hoses which could chafe on the mount structure in the future.

Oiled the cylinder walls and spun the engine over with the starter to raise oil pressure (Lycoming SI1241C) and check magneto operation.

The above checks comply with Lycoming SB480E (oil changes), SB301B and SI1425A, Part 1 (to prevent valve sticking) and SI1080C (routine maintenance list).

Ran the engine and checked it for leaks. Ran the engine again and checked operation of the engine, its controls, magnetos (Lycoming SI1132B), propeller/governor, oil pressure and temperature, CHT and EGT. Checked accuracy of the tachometer per HC-SL-61-185R1. Visually checked the engine.

Louis R. W. Edmonds 22423072 A&P Edmonds Aircraft Service, 18 Airport Road, Newport, NH 02772 August 12, 2014 PA32R-301T 2424.4 hour meter and total time 566.7 SMOH Removed the cowling and the access panel from the firewall/baggage compartment. Drained the oil and checked for sediment. Drained oil from the turbo sump and both oil coolers. Removed the oil filter, cut it open and inspected it. Visually checked a new oil filter and installed it. Added 11 quarts Aeroshell 15W50 oil. Reinstalled the firewall/baggage compartment access plate and cowl. Ran the engine and checked for leaks. Louis R. W. Edmonds 22423072 A&P Edmonds Aircraft Service, Newport, NH 02772 2498.3 Hour meter & TT 640.6 500H Remond cowling and access part in compartent, Draindard & checked for sectionet. Removed and felter, opened & expects chief new one fett & enstalled it Added 11 gts Newshell 15 450. fuel injector lines & clarge per AD 11-26-04 suched the engine. Teaned the idle meature Edmids Arrandt Service Newport NH SUB-TOTALS this page

TOTALS-Carry forward to next page

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
	2498.3	640.6	2498.3	TOTALS brought forward from previous page
12/22/14	2534.0	676.3	2534.0	Replaced 717 probe and checked system operation
2	prin	224	23072 ASP.	
2/6/15	2577.6	919.9	2577,6	Drawnel and & cheskul for sections. Drawnel we from wel
	& turbo	sump.	Removed o	al fetter, cut open & down checked it. Visually checked new
ail fu	the & in	talled it.	Notokel	11 quarts Newshell 15 W 50
	Checked	wering ?	2 Pyres 7	IT & JPI engure indicators.
	Ran enge	me, che	hel for	leads & checled TIT indication
20	m	22423077	ALP. Ed.	wonds Arreruft Service, Newgort NH
4/15/15	2632.7	775.0	2632.7	Drained oil & checked for section of Drained oil from
				or fetter, cut it open & irrepected it. Visually check
				ded 11 quarts newshell 15 W50 oil - Wiped & wrendly
1100				gine & checkel for leaks.
2	pu	7		P Edmonds Aircraft Sorvice Newport NH
				Date: 6-19-15 Reg: N5369S
	(4		AR CENT 08.6555	Time: 2673.6 Hobbs TSMOH: 815.9 W/O: 5064 Engine Entry
	Ran	engine, comp	pression test wa	as as follows: #1 76/80, #2 77/80, #3 77/80, #4 78/80, #5 Oil sample taken for analysis. Removed oil filter and cut
	ope sen	n for inspection	n. No contamir	nants noted. Installed new filter P/N AA48110-2 and hell 15W50 oil. Installed four new spark plugs P/N
	RHI	B36S. Remove rk plugs. Rem	ed, cleaned, insoved, cleaned,	spected, tested, gapped, rotated, and reinstalled all other inspected, and reinstalled fuel inlet screen. Removed,
	mai	n oil sump scr	een. Checked	ed all fuel injectors. Removed, cleaned, and reinstalled magneto timing, no adjustments needed. Lubricated all
-	app	licable AD's, s	ee compliance	crew P/N STD-1925 in #3 valve cover. Researched all record included with logbooks. C/W AD2011-26-04, Fuel
	inje	ctor line inspe	ction, no defect d leak checks s	ts noted. Next inspection due by 2773.6 hobbs,, or 6/2016. satisfactory. All work performed in accordance with
	bee	n inspected in	accordance w	rer's maintenance manual. I certify that this engine has ith an Annual inspection per the scope and detail of 14
	CE	3.43, Appendi	k "D", and was	determined to be in an airworthy condition.
		on A. Archami	beault, for r, LLC, CRS #	SNAR711K
				SUB-TOTALS this page
				TOTALS—Carry forward to next page

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	SIGN		WORK PERFORMED— D. OF PERSON PERFORMING WORK	1/1
				TOTALS broug	ht forward from previou	us page	
8/25/15	2731.7	873,4	2731.1	Removed to	his engine from	PA-32R-3017 N53698	
	2 pu	2	224230821	ASP Edmond	is Awardt Service.	Newport NU	
		DATE:	EN	GINE MODEL:	ENGINE S/N:	ENGINE T.T. SMOH	
	Dece	mber 23, 2015	Т	IO540AH1A	L-11422-61A	2731.1	
	repaired 7 Revision and crant complied has been determin facility. V	as required for n Date July, 20 kshaft bolts an I with. This engo accepted. I celed to be airwo	r serviceable or 11 using new s id bearings insi- gine has been t rtify that this e orthy with resp 6571	ondition. Engine asseals, gaskets and "o talled. Applicable So tested in accordance engine has been inspect to the work per	O" rings. New connecting of ervice Bulletins and Airwo e with procedures listed in pected and repaired as income formed. Details of this rep	th LYC overhaul manual 60294- rod bolts, nuts, and bearings rthiness Directives have been n overhaul manual 60294-7 and dicated above and was	
1/21/16	2731.1	873,4	2731.1		V. Reinstalled	this engine on PA32R.	
-					installation	· ·	
	Cleaned	& visua	elly chies	and the day	ffly & runsta	lled them.	
						talled the exhaust uf	
new ga						turbochanger w/ new g	agh
	rew turt				<u> </u>		
					fute bor, de	not & pipery to the of	ent
servo.						stalled it w/ supplied	
						& existing coupling	
	a the			0			
1		1		ulation of	nagueto preme	ry leads & connecte	1 4
to then						egution harnes, I	
				SUB-TOTALS	this page		
	273/1	872.4	2731.1	TOTALS—Car	rry forward to next page		

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
	2731.1	873.4	2731.1	TOTALS brought forward from previous page
/21/16 1	Continue) the te	imual e	vols per SI 1365 Cleched without resistance & gup
of span	plus	enstal	le then	of new gaslets in all position except cyl "2 upper &
enstalle	anew l	e RHB 36.8	in that i	location,
	Renstall	io the es	esting s	tacter notor & alternator & connected the existing wing
	Reintall	o the e	restery a	is conditioner purp. Removed #2 intake pipe to recorts
the AC.	pup as t	he refug	erant li	res were rever disconnected. Reinstalled the #2 intale pige
Positione	the re	ng gear	flywhee	on the crang , checken timing marks per Tyrony
SI 1437.	Installe	o the p	ups se	coul the very gear, Installed alternation de and
air con	detioner	y druce	belts a	Her checking pully alignement & tensioned the belts
7	oming s	£ 1129 B.		
	Installer	of the gor	enor w/n	engashet, connected & regged the control. Irshalld
Connect				muture control.
	Cleaned,	erspecti	of 3 rec	notable existing upper ded, nagreto pressure ate
oil s	ful s	enstru	net air	hoses, & piping.
		4		glerder house & surg heaten & hames per Reeff
untall				Rechel operation
	^			spen the engine w/ the starter to prelubicate the
engine	-			ofter adding 11 quants Philly 20 w50 x/c (53480E
				I leads, Respond full run up & checkel
	and the second second			ropelles governos operation, full Brottle RPM, MP
U				adjusted idle RPM & moure. Credial will cuit-
Visna	-	1		the test very.
	M		22423002	Dep Felmonds Accreft Service Newport NH
				SUB-TOTALS this page

TOTALS—Carry forward to next page

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
opened a visually	Drained the and inspected checked it. Ran the eng	oil and chec l it. Visually Added 11 qui ine to warm	ked for seding checked and arts Phillips it and adjust Louis R. W	Mo.0 hour meter and total time ment. Drained the turbo sump and oil coolers. Removed the oil filter, d installed a new filter. Wiped the lower portion of the engine and 20W50 X/C oil. Ran the engine and checked for leaks. ted the idle mixture and RPM settings. Edmonds 22423072 A&P
				55.6 SIRAN Drained onl & checked for sections. Drow
				eller, opened & inspected. Visually checked & installed a
				ereen cleared & inspected it Reinstalled screen w/ new
Ren eng	ine & c	audul fo	leaks.	ZRN - 22423072 ASP Edwards Avants Service
18/16 voste ;	2788.6	930. 9 Sechel eng	2788.6	57.5 SIRAN Replaced the return sprey on the
		GRANIT	BAR CE	Date: 7-1-16 Reg: N5369S Time: 2806.7 Hobbs TSMOH: 949.0 W/O: 6095 Engine Entry
		Ran engine, c 72/80, #6 73/8 open for inspe serviced with Removed, cle Removed, cle inspected, an sump screen. defects noted all applicable Fuel injector II operational ar sections of m inspected in a Appendix "D"	30. Drained hostion. No conful 11 quarts of P aned, inspected aned, inspected reinstalled all C/W Piper red. Lubricated tu ADs, see comine inspection, and leak checks anufacturer's recordance with and was determined.	ast was as follows: #1 72/80, #2 70/80, #3 768/80, #4 72/80, #5 of oil. Oil sample taken for analysis. Removed oil filter and cut taminants noted. Installed new filter P/N AA48110-2 and hillips 20W50 X/C oil and Lycoming additive LW16702. ed, tested, gapped, rotated, and reinstalled all spark plugs. ed, and reinstalled fuel inlet screen. Removed, cleaned, Il fuel injectors. Removed, cleaned, and reinstalled main oil commended 1000 hour turbo charger internal inspection, no irrocharger waste gate to obtain free movement. Researched pliance record included with logbooks. C/W AD2015-19-07, no defects noted. Next inspection due by 2906.7 hobbs. All is satisfactory. All work performed in accordance with applicable maintenance manual. I certify that this engine has been than Annual inspection per the scope and detail of 14 CFR 43, emined to be in an airworthy condition.
			Company of the Compan	
				SUB-TOTALS this page

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	SIG		DF WORK PERFORMED— NO. OF PERSON PERFORMING W	VORK
				TOTALS bro	ught forward from pre	vious page	
Ren	nd turbo o	tac Iter and drai	th 2814.1 Pined oil. Sam	iper PA-32-30 ple taken. In: are missing. Ir	2th street Erie PA 2T S/N3257329 stalled new oil filter astalled customer so me. Reinstalled cov	N5369S and 11 qts Philip's 20w-50 upplied new hardware and vling. A&P 185586248	
	1	1	1				L. Carl
			NITE AIR C		Date: 8-8-16 Time: 2837.9 Hob	Reg: N5369S	
		- CARA	603.298.6555		W/O: 6128	Engine Entry	
		fitting on All work pmanual.	top of oil cooler performed in acc This aircraft is service.	to eliminate oil s cordance with ap airworthy in refe	eep. All operational and plicable sections of man rence to work performed	16702. Tightened loose leak checks satisfactory. ufacturer's maintenance and is approved for	
			1	No. on		D NEOCOC	
			3.298.6555		Date: 7-21-17 Time: 2967.2 Hobbs W/O: 7101	Reg: N5369S TSMOH: 1109.5 Engine Entry	
		open for inspeserviced with Removed, cle Removed, cle inspected, an screen. Install and reinstalle Adjusted timir compliance reno defects no satisfactory. A maintenance Annual inspected to the state of the state of the state of the service of the	80. Drained horection. No contra 9 quarts of Philipaned, inspected aned, inspected dreinstalled all led 5 new rocked #6 cylinder Clag on both mage cord included where the cord in an airwork and the contract the cord in an airwork and the cord in a cord in airwork and the cord in airwork and	t oil. Oil sample aminants noted. Iips 20W50 X/C od, tested, gapped, and reinstalled fuel injectors. Refer cover screws FHT probe. Installentos as required with logbooks. C/ction due by 306 ed in accordancity that this engine pe and detail of	#1 76/80, #2 76/80, #3 taken for analysis. Remainstalled new filter P/N Abil and Lycoming additive, rotated, and reinstalled fuel inlet screen. Remainstalled fuel inlet screen. Remains and revivo STD-1925 in various and new oil sump quick did. Researched all application applications with applicable sections with applicable sections has been inspected in 14 CFR 43, Appendix "In the section of t	A48110-2 and a LW16702. I all spark plugs. oved, cleaned, installed main oil sump locations. Removed ain P/N CCB-37000. Ible ADs, see injector line inspection, all and leak checks of manufacturer's accordance with an	
		-					

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME		TION OF WORK PERFO FICATE NO. OF PERSON P			
				TOTALS brought forward from previous page				
				Date: 8-2-18	Reg: N5369S —			
	(an	ANITE AL	R CENTER	Time: 3091.4 Hobbs	TSMOH: 1233.7			
		603.298.6	100000000000000000000000000000000000000	W/O: 8128	Engine Entry -			
		000.200.0	000	VV/O. 8128	Linguite Linuy			
	72/80, # open for serviced Remove inspected	6 78/80. Drain rinspection. Not with 9 quarts and, cleaned, in the dispersion of the	ned hot oil. Oil to contaminants of Phillips 20W espected, tested espected, and re alled all fuel inie	s follows: #1 78/80, #2 78/80, #3 sample taken for analysis. Remos noted. Installed new filter P/N A /50 X/C oil and Lycoming additive I, gapped, rotated, and reinstalled installed fuel inlet screen. Remoctors. Removed, cleaned, and reinstalled.	A48110-2 and			
	screen	Installed new	oil sump quick	drain P/N CCB-37000. Resecure	d heat shield on oil			
	lines be	hind turbocha	rger. Retorque	l and resaftied right side exhaust il cooler.Researched all applicabl	v-band clamps.			
	complia	nce record inc	cluded with loab	ooks, CW AD2015-19-07, Fuel in	njector line inspection,			
	no defe	cts noted. Nex	et inspection du	e by 3191.4 hobbs or 8/2019. All	operational and leak	,		
	- checks	satisfactory. A	Il work perform	ed in accordance with applicable	sections of			
	manufa	cturer's mainte	enance manual	I certify that this engine has been per the scope and detail of 14 (CFR 43. Appendix "D".			
	and was	determined	to be in an airw	orthy condition.				
	and the			marker & Company of				
		- Mu	ul for					
	Grante	Archambea Air Center, LI	ult, for _C, CRS # SNA	R711K				
	Jignile	la contor, E						
		7						
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						1		
						1		
-								
				SUB-TOTALS this page				