

#2



The Standard

ENGINE LOG

ASA-SE-1

Engine Record General Information

Manufacturer Lycoming Model 10540 K165

Serial RL-15240-48A Type Certificate _____

This engine is currently installed in aircraft N3004P

Minimum Octane Fuel _____ Oil Grade: Summer _____ Winter _____

Magneto Time _____ Point Setting _____ Firing Order _____

Spark Plug Gap _____

Manufacturer recommended overhaul at 2,000 hours

DATE 1997	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 Repair Facility. (See back pages for other specific entries.)
3/21/97	2696.73		1716.7 SMOH	<p>1/10 hr. inspection. Comp. G. # 69/ # 78/ # 77/ # 76/ # 73/ # 6/ # 71/ # 70/ # 69/ # 68/ # 67/ # 66/ # 65/ # 64/ # 63/ # 62/ # 61/ # 60/ # 59/ # 58/ # 57/ # 56/ # 55/ # 54/ # 53/ # 52/ # 51/ # 50/ # 49/ # 48/ # 47/ # 46/ # 45/ # 44/ # 43/ # 42/ # 41/ # 40/ # 39/ # 38/ # 37/ # 36/ # 35/ # 34/ # 33/ # 32/ # 31/ # 30/ # 29/ # 28/ # 27/ # 26/ # 25/ # 24/ # 23/ # 22/ # 21/ # 20/ # 19/ # 18/ # 17/ # 16/ # 15/ # 14/ # 13/ # 12/ # 11/ # 10/ # 9/ # 8/ # 7/ # 6/ # 5/ # 4/ # 3/ # 2/ # 1/</p> <p>#6, 71/8. Changed oil & filter. Serviced with Phillips 20W50 oil. installed new Vernatherm valve - PN: 53E22144, SV: 82415, checked AD93-02-05 inj. line inspection, replaced H. mag. adapter gasket, reinstalled H. mag. after repair by Columbia A/C, installed looser prop from Sandwich, washed engine, run-up & leak check OK - EMD</p> <p>I certify that this engine was inspected in accordance with an annual inspection and determined to be in an airworthy condition. <i>James K. Miller</i> AIP 189443761A</p>

DATE 19__	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 Facility. (See back pages for other specific entries.)
7/24/95	2716.4		130 1736.0	<p>Completed a annual inspection. Change oil and serviced with Phillip 20W50 oil. Compression #1-73/80 #2-73/80 #3-73/80 #4-73/80 #5-70/80 #6-70/80</p> <p>Complied with AD93-02-05 fuel injector line inspection. zero defects. Complied with AD95-26-13 oil cooler inspection. zero defects noted. Run up and leak check were good. I certify that this engine has been inspected in accordance with an annual inspection and was determined to be in airworthy condition. <i>WOT #1716 Airways Inc. Lancaster</i> <i>Robert J. Huxak</i> AIP 171407344IA</p>

DATE 19__	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN	Description of Inspections, Tests, Repairs and Alterations Palm Beach Aircraft Services, Inc. 2633 Lantana Road, Hangar 408 Lantana, FL 33462
				<p>Reg: N3004P S/N: RL15240-48A M/N: IO-540-K1G5 Date: 01-18-2000 Tach: 3080.2 TSN: 3080.2 SMOH: 2102.2</p> <p>Changed oil and filter, refilled with 11 qrts of Aeroshell 100W50 oil. Inspected oil filter (no metal found). Replaced oil filter with P/N#CH48109. Removed and replaced 12 each spark plugs with new P/N#RHE-38E. Removed and replaced (6) rocker box gaskets with new P/N#SL67193-S. Replaced two left hand magneto gaskets with new P/N#SL62224. Replaced push rod seals with new P/N#SL18661. Performed ground run and no leaks found. This aircraft engine identified above was inspected/repared in accordance with current FAA regulations and is approved for return to service.</p> <p><i>D. D. D. 34480929 AWP</i></p>

DATE 19__	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN	Description of Inspections, Tests, Repairs and Alterations Palm Beach Aircraft Services, Inc. 2633 Lantana Road, Hangar 408 Lantana, FL 33462
				<p>Reg: N3004P M/N: IO-540-K1G5 S/N: RL-15240-48A Date: 02-21-2000 Tach: 3094.0 TSN: 3094.0 SMOH: 2116.0</p> <p>Removed left oil cooler P/N#8529245, S/N#78J-1062 and replaced with new P/N#20002A, S/N#E99-3634-9. Changed oil and filter, refilled with 12 quarts of Aeroshell 100W50 oil. Replaced oil filter with new P/N#CH48109. Performed ground run and no leaks found at this time. The aircraft engine and/or component identified herein was repaired/installed in accordance with current FAA regulations and is approved for return to service.</p> <p><i>L.C. Smith</i> L.C. Smith 2150990 A&P</p>

DATE
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This is to certify that the engine described hereafter has been overhauled to manufacturers new parts limits by Zephyr Aircraft Engines, Inc. Engine disassembled, cleaned, and inspected in accordance with manufacturers instructions. All steel parts magnafluxed. Reassembled in accordance with manufacturers current overhaul manual. Engine test run. All applicable Airworthiness Directives are in compliance. See A.D. list supplied. A description of these repairs is on file at this agency under:

W.O. No. 20154 DATED 7-16-00
 MFG. LYCOMING MODEL IO-540-K1G5
 Serial No. RL-15240-48A Time in svc. 3145



F.A.A. APPROVED REPAIR STATION #V14R597M

(813) 788-3305 • Fax (813) 788-4412
 39320 Avenue B • Zephyrhills, FL 33540

Heiman Volleard
 Authorized Signature

DATE
19

Aircraft Engineering, Inc.

Bldg. 434 Bartow Airport
 Bartow, FL 33830
 863-5331870 FAA VF4R584M

DATE: 7-31-00 TACH: 3145
 WO# A7040B N# 3004P

1. INSTALLED FIREWALL
 FORWARD ENGINE: REPAIRED
 ALL BAFFLING AND PAINTED.
 REPLACED ALL FUEL AND
 OIL HOSES. CHANGED OIL
 AND FILTERS. INSPECTED
 AND PAINTED MOUNTS.
 REPLACED ENGINE MOUNTS.
 INSTALLED NEW OIL COOLER.
 DYNAMICALLY BALANCED
 PROPELLERS AND ENGINE.
 REPLACED ALTERNATOR BELT.
 FLIGHT TESTED ONE HOUR
 AND POST FLIGHT INSPECTED

Inspections, Tests, Repairs and Alterations
 endorsed with Name, Rating and Certificate Number of Technician on
 k pages for other specific entries.)

7-31-00
AIRCRAFT ENGINEERING, INC.
 Bartow Airport

813/533-1870
 Repair Station FAA Approved VF4R5
 TAC 3145 Total Time 31

I certify that this ENGINE
 been inspected in accordance with an
ANNUAL inspection and has be
 determined to be in airworthy condition.
 AD's thru Card 2000-13
 AD list back of log book.
 For details work order # 1040B

Bill Turley Signature [Signature] Inspector

DATE

19

MAINTENANCE RELEASE

The appliance identified below was repaired and inspected in accordance with current FAA regulations and is approved for return to service. Pertinent data of the work order on file at this agency.

AUTHORIZED SIGNATURE

United Accessory

3121 NATIONAL CIRCLE
GARLAND, TEXAS 75041

FAA REPAIR STATION NO. TE1R503K

P/N 20003A S/N 197-2992Desc Old Control Mfr. MagnaCustomer A/C Engineering TSO 8 A/C#

OVERHAUL NEW EQUIPMENT OTHER
 REPAIRED FUNCTIONAL TEST

WO# 14780 Date 7-24-00Technician Jrey Inspector Kay Kelley

Repair

SERVICEABLE

DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations
10				Entries must be endorsed with Name, Rating and Certificate Number of Technician or Facility. (See back pages for other specific entries.)

Aircraft Engineering, Inc.

Bldg. 434 Bartow Airport
Bartow, FL 33830
863-5331870 FAA VF4R594M

DATE: 8-29-00 TACH: 3159.54

W.O. --N3004P--Engine

1) 10 Hr. Oil and Filter
Change 10 Qts. Non-Det.

2) Test Run-Up OK.

AM

10-26-00 Tach 3196

Drained oil, replaced with

10 Quarts Acad 100 Non-Det

replaced oil filter part # CH4

Chapman

J. Kelly 257 263118

DATE 19__	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 Repair Facility. (See back pages for other specific entries.)
12/11/00	3226.84	↓		Oil & Filter change. 10 Quarts AeroShell 20-50w oil filter # CH 48109 checked for leaks Jal Appl; 257063118
1/9/01	3262.74	↓		oil & filter change 10 Quarts AeroShell 20-50w oil filter # CH 48109 checked for leaks Jal Appl; 257063118
5/8/01	3306.8			Drained oil & replaced w/ 10 Quarts AeroShell 100 oil Replaced oil filter w/ CH 48109 Jal Appl; 257063118 162 Hrs on Engine

DATE 19__	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 Facility. (See back pages for other specific entries.)
6/8/01	3335		190.50	Drained oil, replaced w/ 10 Quarts AeroShell Replaced oil filter w/ CH 48109 Replaced Landing Light GE 100W # Q 4509 Jal Appl; 257063118

DATE
19

Aircraft Engineering, Inc.

Bldg. 434 Bartow Airport
Bartow, FL 33830
863-5331870 FAA VF4R594MInsp.
Jobs
page

DATE: 8-3-01 TACH: 3350

W.O. 7144--N3004P--Engine

- 1) Compression Test 80 PSI/
77,78,77,78,78,78
- 2) Change Oil and Filter 11
Qts. 100W.
- 3) Inspected Oil Filter,
Found Normal.
- 4) R/R Air Filter with new.
- 5) Re-Seal Bolt (Stop small
Oil Leak Front Bottom).
- 6) Re-Clamp Alt Air Door
Cable.
- 7) R/R Starter Cable Assembly
with new.
- 8) Test Run-Up OK.

8-3-01

AIRCRAFT ENGINEERING INC.

Bartow Airport

813/533-1870

205SMC11

Repair Station FAA Approved VF4R594M

TAC

3350

Total Time

3350

I certify that this ENGINE has

been inspected in accordance with an

ANNUAL inspection and has been

determined to be in airworthy condition.

AD's thru Card 2001-13

AD list back of ion book.

For details work order # 7144

Bill T

Inspector

pair

DATE | RECORDING | TODAY'S | TOTAL

Description of Inspections, Tests, Repairs and Alterations

Aircraft Engineering, Inc.

Bldg. 434 Bartow Airport
Bartow, FL 33830
863-5331870 FAA VF4R594MMust be endorsed with Name, Rating and Certificate Number of Technician or F
(See back pages for other specific entries.)DATE: 9/28/01 TACH: 3372.89
N3004P

Installed 3 new plugs on
bottom of 2,4, and 6
cylinders.

10/25/01 Tach 3395.45
Oil changed, added 11 Quarts Aerosh
Replaced oil Filter CH 48109
D. J. [Signature] 257063118



DATE	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 Repair Facility. (See back pages for other specific entries.)
19 2002				
1-11-02	3435.64			INSTALLED JPL EBT 701 W/FUEL FLOW I.A.W. STC 'S SA2586NM AND SA00432SE, SEE 337 + W+B DATA THIS DATE. Inspected AP1797250 IA
3/8/02	3456.30			Oil change - Added 11 q. AeroShell 100 Replaced oil filter CH 48109 Joe [Signature] 297067118
10/29/02	3421.90			Oil change Added 11 q. AeroShell 100 Replaced oil filter CH 48109 Joe [Signature] 297067118

7

Date: 5/15 Tach: Remove Propeller, Replace
CRANESHAFT SEAL, REINSTALL SAFETY Propeller
Remove LEFT MAG, install new gasket,
Reinstall Left mag 1/2 TIME TO ENGINE, Replace
oil filter adapter gasket, Check hose connectors
and sump bolts for security. WASH
Down engine and LEAK CHECK AFTER RUN

Zephyr Aircraft Engines, Inc.
Municipal Airport
39320 Avenue B • Zephyrhills, FL 33540

W.O. No. 22120
F.A.A. APPROVED REPAIR STATION #VI4R597M


Authorized Signature

Aircraft Engineering, Inc.

Bldg. 434 Bartow Airport
Bartow, FL 33830

941-533-1870 FAA VF4R594M

DATE: 8-16-02 TACH: 3513 Hrs.

N3004P-----Engine-----W08218

1. Annual inspection completed.
2. Performed a compression test.
Results, #1 77/80, #2 78/80,
#3 77/80, #4 78/80, #5 78/80,
#6 78/80.
3. Changed oil and inspected filter.
Serviced with 11 qts. of
Aeroshell 100W oil.
4. Replaced induction air filter.
5. C/W AD93-2-5 by inspection.
6. Replaced rear muffler with a
new unit.
7. Replaced 4 spark plugs. Installed
REM38E plugs.
8. Replaced alternator brushes.

END

Inspections, Tests, Repairs and Alterations

Endorsed with Name, Rating and Certificate Number of Technician or Repair
Station (See back pages for other specific entries.)

Date 8-16-02

AIRCRAFT ENGINEERING INC.

Bartow Airport

813/533-1870 *368 Smith*

Repair Station FAA Approved VF4R594M

TAC 3513 Total Time 3513

I certify that this engine has
been inspected in accordance with an
ANNUAL inspection and has been
determined to be in airworthy condition.

AD's thru Card 2002-14

AD list back of log book.

For details work order # 8213

[Signature] Inspector
Rating

Bill Tarley Signature

DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations
19__				Entries must be endorsed with Name, Rating and Certificate Number of Technician or Facility. (See back pages for other specific entries.)

DATE: 11/21/02 TACH: 3550.8 # 4 CYLINDER REMOVE
INSTALLED OVERHAULED CYLINDER I/A/W LVC
O/H MANUAL. TESTFLOWN

Zephyr Aircraft Engines, Inc.

Municipal Airport

39320 Avenue B • Zephyrhills, FL 33540

W.O. No. 0/2

FA.A. APPROVED REPAIR STATION #VI4R597M

[Signature]
Authorized Signature

<u>4402 Motors</u>		<u>changed Oil & Filter - Filled w/10 Quart</u>	
<u>3571</u>		<u>of Aeroshell 100. <i>[Signature]</i></u>	<u>Tach 3571</u>

DATE 19__	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 Repair Facility. (See back pages for other specific entries.)
12/13/03	3730			Replace Oil & Filter, Added 10 Quarts AeroShell 100™ <i>J. [Signature]</i>
12/16/03	3760			Replace Oil & Filter, Added 10 Quarts AeroShell 100™ <i>J. [Signature]</i>
1/23/04	3802			Replace oil & Filter - Added 10 Quarts AeroShell 100W <i>J. [Signature]</i>

DATE 19__	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 Repair Facility. (See back pages for other specific entries.)

Aircraft Engineering, Inc.

Bldg. 434 Bartow Airport
Bartow Florida 33830
863.533.1870 FAA VF4R594M

DATE: 1/26/2004 TACH: 3773
N3004P

1. REMOVED AND REPLACED FUEL SERVO WITH
OVERHAULED UNIT S/N 228B1. SET TO FACTORY SPECS

THE AIRCRAFT, ENGINE(S), OR COMPONENT ABOVE WAS
REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT
FAA REGULATIONS AND IS APPROVED FOR RETURN TO
SERVICE. PERTINENT DETAIL W.O.# 1452 INSP.

[Signature]

5/5/04 Ditcher
Replaced oil & filter
Added 10 Quarts
AeroShell 100W
J. [Signature]

DATE 19__	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 Repair Facility. (See back pages for other specific entries.)
5/17/04	3835			changed oil & filter 100 <i>Added 10 minutes, per AD</i>
7/9/04	3862			changed oil & filter 100 <i>Added 10 minutes, per AD</i>

DATE 19__	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 R Facility. (See back pages for other specific entries.)
	4017		3037	
	5017		373	
				Date <u>9-17-05</u>
				AIRCRAFT ENGINEERING INC.
				Bartow Airport
				813/533-1870
				Repair Station FAA Approved VP405041
				TAC <u>4017</u> Total Time <u>3037</u>
				I certify that this <u>EWL</u> has
				been inspected in accordance with an
				<u>II</u> inspection and has been
				determined to be in airworthy condition.
				AD's thru Card <u>05-18</u>
				AD list back of log book.
				For details work order # <u>9979</u>
				Inspector <u>[Signature]</u>
				Bill Turley Signature <u>[Signature]</u>

Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back page for other details)

Aircraft Engineering, Inc.

Bldg. 434 Bartow Airport
Bartow Florida 33830
863.533.1870 FAA VF4R594M

Aircraft Engineering, Inc.

Bldg. 434 Bartow Airport
Bartow Florida 33830
863.533.1870 FAA VF4R594M

DATE: 9/19/2005 TACH: 4017
N3004P ENGINE WO# A 9519

DATE 9/19/2005 TACH: 4017
N3004P AIRFRAME WO# A 9519

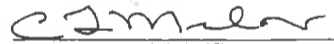
- 1 ANNUAL INSPECTION COMPLETED
- 2 COMP TEST 80 PSI 1. 76 2. 78 3. 76 4. 74 5. 78 6. 76
- 3 CHANGED OIL & FILTER, SERV. W/ 11 QTS AEROSHELL 100W
- 4 REPLACED NEW AIR FILTER
- 5 AD 02-28-1 C/W BY INSPECTION
- 6 AD05-12-8 C/W BY PULLING & INSPECTING
- 7 SB586 N/A BY S/N
- 8 INSTALLED NEW EXHAUST GASKET ON CYL 1, 3 & 5
- 9 REPLACED NEW ALT BRUSH & HOLDER
- 11 INSTALLED 8 REM39E SPARK PLUGS
- 12 REPLACED ALL VAC PUMP SEALS & GASKETS

- 1 ANNUAL INSPECTION COMPLETED
- 2 PAINTED BATTERY BOX
- 3 TESTED ELT I/A/W FAR 91-207(d) BATT DUE 7-06
- 4 INSTALLED NEW JPI OIL TEMP PROBE
- 5 REPLACED LEFT BRAKE O RING & BLEED SYSTEM
- 6 AD 78-7-12 C/W BY TESTING
- 7 AD 78-23-1 C/W BY INSPECTION
- 8 9B 977 C/W BY INSPECTION
- 9 SAJB WING WALK INSPECTION C/W
- 10 INSTALLED NEW VAC RELIEF FILTER
- 11 INSTALLED NEW LEFT MAIN 600X6 FCIII 6 PLY TIRE
- 12 INSTALLED NEW COMPASS CARD & CALIBRATE ON BARTOW COMPASS ROSE
- 13 REPLACED SEAL ON VENT WINDOW

This is to certify that the engine described hereafter has been overhauled to manufacturer's new parts limits by Zephyr Aircraft Engines, Inc. Engine disassembled, cleaned, and inspected in accordance with manufacturer's instructions. All steel parts magnafluxed. Reassembled in accordance with manufacturer's current overhaul manual. Engine test run. All applicable Airworthiness Directives are in compliance. See A.D list supplied. A description of these repairs is on file at this agency under:

W.O. # 26160 DATED 7/21/06
MFG. LYCOMING MODEL IO-540-K1G5
Serial No. RL-15240-48A Time in svc. 3038

TACH READS 4018
Zephyr Aircraft Engines, Inc.
Municipal Airport
39320 B Avenue Zephyrhills, FL 33542



FA A APPROVED REPAIR STATION #VI 4R597M

Authorized Signature

