

MAKE: LYCOMING
MODEL: TIO-540-AH1A
SERIAL # L-12333-61A

N # N616AR
T.T. 874.2

3K

DATE

THE ABOVE ENGINE WAS DISASSEMBLED FOR A CAMSHAFT REPLACEMENT. THIS ENGINE WAS CLEANED, INSPECTED, REPAIRED, ASSEMBLED AND TESTED. ALL 6EA. CYLINDERS WERE REPAIRED AS NECESSARY. REPLACE FUEL PUMP WITH OVERHAULED EXCHANGED UNIT. ALL WORK COMPLETED WITH REFERENCE TO OVERHAUL MANUAL 60294-7-14 AND PARTS MANUAL PC315-10. ENGINE WAS TEST RAN IN ENGINE TEST CELL. PERTINENT DETAILS ARE ON FILE AT THIS FACILITY UNDER INV. 9706. END

DATE: MAY 27, 2016

TIM'S AIRCRAFT ENGINES INC.
6105 OBISPO AVE.
LONG BEACH CA. 90805
PH. # (562) 634-6120
FAX (532) 634-6129

SIGNED: 
FAA REPAIR STATION T22R537Y

**TIM'S AIRCRAFT ENGINES INC.
FAA REPAIR STATION #T22R537Y**

05-27-2016 TIO-540-AH1A S/N L-12333-61A INV. 9706

| QTY | PART # | DESCRIPTION | QTY | PART # | DESCRIPTION |
|-----|--------------|-------------|-----|-------------|-------------|
| 1 | 05K22599 | GASKET SET | 2 | STD-2048 | HOSE |
| 12 | 12B26588 | BODY | 6 | STD-2180 | HOSE |
| 2 | 18B23885 | BEARING | 1 | STD-2247 | BOLT |
| 6 | 18E23886 | BEARING | 6 | STD-2249 | NUT |
| 12 | 18N26106 | BEARING | 1 | STD-95 | KEY |
| 2 | 67542 | BEARING | 6 | 05K22037 | RING SET |
| 8 | 71907 | WASHER | 3 | 17B23935 | VALVE |
| 12 | 72198 | PLUG | 12 | 17C21191 | KEY |
| 1 | 76510 | GASKET | 12 | 72050 | KEY |
| 12 | 951391 | O-RING | 6 | 74494 | PLATE |
| 1 | AA48110-2 | FILTER | 6 | 14D23907 | PISTON |
| 1 | AN565B1032H5 | SET SCREW | 2 | LW-14078 | PIN |
| 12 | LW-12186 | NUT | 2 | 75838-P05 | GUIDE |
| 12 | LW-12596 | BOLT | 1 | 51A22618 | BODY |
| 8 | LW-14820 | RING | 1 | 56G23399 | BAFFLE |
| 1 | LW-19340 | CAMSHAFT | 5 | LW-18724 | HOSE |
| 2 | LW-25-0.63 | BOLT | 1 | RG9080J4A/M | FUEL PUMP |

**Advanced Aircraft Service
8622 Gibbs Dr.**

San Diego, CA. 92123

858-560-7599 Fax 858-560-7507

CESSNA SERVICE CENTER

Date:6/27/16 N#:N616AR S/N:Engine L-12333-61A
Hobbs:874.2 hr TT:874.2 hr TTSMOH:

Reinstalled this motor in N616AR after repair by Tim's Aircraft Engines W.O.# 9706, Installed new engine mounts J9613-19 & -12, Installed new belts 37D22355 & 37B19774-472, Installed new 102-00008-1 CHT probe in cyl #2, Repaired misc baffles, C/W AD2015-19-07 (e) per MSB 342G,

Added 12qts Phillips XC 20w50 oil

This Engine has been inspected I/A/W FAR Part 43 Appendix D. using Current Aircraft Maintenance Manual as a guide to complete an Annual Inspection, and was determined to be in an airworthy condition at this time.



IA3467663

END

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8622 Gibbs Dr.
San Diego, CA. 92123
858-560-7599 Fax 858-560-7507
CESSNA SERVICE CENTER

Page No. _____

DATE

Date:12-02-16 N#:N616AR S/N:
Hobbs:0904.9 TT: TTSMOH:

Drained oil inspected oil filter and suction screen. Installed new oil filter CH48110-1
Serviced with 11qts of Phillips X/C 20w50. Preformed ground run.

Antes AP 3841036
-----END-----

FORMING WORK

Advanced Aircraft Service
8622 Gibbs Dr.
San Diego, CA. 92123
858-560-7599 Fax 858-560-7507
CESSNA SERVICE CENTER

Date:08-08-16 N#:N616AR S/N:
Hobbs:0893.8 TT: TTSMOH:
Cleaned cyl# 2 & 3 fuel injector and installed 4 new orings 951391

Antes AP 3841036
-----END-----

Advanced Aircraft Service
8622 Gibbs Dr.
San Diego, CA. 92123
858-560-7599 Fax 858-560-7507
CESSNA SERVICE CENTER

Date:05-11-17 N#:N616AR S/N:
Tach:0942.8 TT: TTSMOH:
Drained oil inspected suction screen and filter. Installed new filter CH48110-1
Serviced with 11qts of Phillips X/C 20w 50 Preformed ops Check ok.

Antes AP 3841036
-----END-----

Advanced Aircraft Service
8622 Gibbs Dr.
San Diego, CA. 92123
858-560-7599 Fax 858-560-7507
CESSNA & BEECHCRAFT SERVICE CENTER

Date: 7/21/2017 N# 616AR Eng S/N: L-12333-61A
Tach/Hobbs: 942.8 Eng TT: 942.8

Serviced engine for an annual inspection.
Compression: 1 74/80, 2 63/80, 3 62/80, 4 75/80, 5 61/80, 6 61/80.
Cleaned, gapped, tested, rotated spark plugs, replaced gaskets M674.
Reset left and right mag timing to 20 BTDC.

CW A.D. 2015-19-07 fuel injector lines IAW Par (e), next due Hobbs 1042.8

Guy LaPlante *Guy LaPlante* A&P 3892552

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**Advanced Aircraft Service
8622 Gibbs Dr.**

**San Diego, CA. 92123
858-560-7599 Fax 858-560-7507**

CESSNA / BEECHCRAFT SERVICE CENTER

Date: 7/21/17 N#: N616AR S/N: Engine L-12333-61A
Hobbs: 942.8 hr TT: 942.8 hr TTSMOH:

This Motor has been inspected I/A/W FAR Part 43 Appendix D. using Current Aircraft Maintenance Manual as a guide to complete an Annual Inspection, and was determined to be in an airworthy condition at this time.



IA3467663

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RMED—
PERFORMING WORK

**Advanced Aircraft Service
8622 Gibbs Dr.**

**San Diego, CA. 92123
858-560-7599 Fax 858-560-7507**

CESSNA / BEECHCRAFT SERVICE CENTER

Date: 8/10/18 N#: N616AR S/N: Motor L-12333-61A
Hobbs: 1001.5 hr TT: 1001.5 hr TTSMOH:

CW AD2015-19-07 (e)

Drained oil, inspected screen and filter, added 11qts Phillips XC 20w50 oil
Compression #1 69/80 #2 77/80 #3 70/80 #4 70/80 #5 72/80 #6 74/80

This Motor has been inspected I/A/W FAR Part 43 Appendix D. using Current Aircraft Maintenance Manual as a guide to complete an Annual Inspection, and was determined to be in an airworthy condition at this time.



IA3467663

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**Advanced Aircraft Service
8622 Gibbs Dr.**

**San Diego, CA. 92123
858-560-7599 Fax 858-560-7507**

CESSNA & BEECHCRAFT SERVICE CENTER

Date: 3/21/19 N#: 616AR Tach: 1004.8
S/N: L-12333-61A TTAF: 1004.8

Serviced engine for an annual inspection.

Compressions: 1 73/80, 2 77/80, 3 75/80, 4 77/80, 5 76/80, 6 76/80. Drained oil, refilled with 11 Qts Phillips XC 20W50 Oil, inspected and replaced oil filter CH48110-1, inspected sump screen and replaced gasket MS35769-21. Blackstone sample taken. Cleaned, gapped, inspected and rotated spark plugs, replaced gaskets M674. Performed borescope inspection of cylinders, no anomalies noted.

Adjusted idle RPM to 650-680 and adjusted idle mixture for a 50 RPM rise..

Ground ops check good.

CW Lycoming A.D. 2015-19-07 fuel injector lines by visual inspection, next due tach 1104.8

Guy La Plante



A&P 3892552

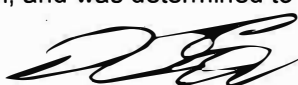
**Advanced Aircraft Service
8622 Gibbs Dr.**

**San Diego, CA. 92123
858-560-7599 Fax 858-560-7507**

CESSNA / BEECHCRAFT SERVICE CENTER

Date: 3/21/19 N#: N616AR S/N: Motor L-12333-61A
Tach: 1004.8 hr TT: 1004.8 hr

This Motor has been inspected I/A/W FAR Part 43 Appendix D. using Current Aircraft Maintenance Manual as a guide to complete an Annual Inspection, and was determined to be in an airworthy condition at this time.



IA3467663

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Ed Petkus

April 15, 2020

N616AR S/N: 3257423 TOTAL TIME: 1061.4 MX HOBBS :1061.4

DATE Engine M/N: TIO-540-AH1A S/N: L-12333-61A ENGINE TT 1061.4

Complied with 100hr Inspection in accordance with Piper Service Manual:

Completed pre-inspection operational checks. Performed inspection including engine, and mounting brackets, and associated components.

Performed cylinder compression test. Results as follows: #1 76.5/80, #2 74.5/80, #3 76.5/80, #4 77/80, #5 77/80, #6 74.5/80. Borescoped all cylinders.

Cleaned Fuel Filters, Checked timing, and oil sample taken. Serviced with 11Qts Phillips 20W50 oil, Serviced CH48110-1 Oil Filter, with new, old one checked ok.

Bracket Filter with new BA3505.

Exhaust system and muffler checked per 100hr requirements.

Ground checks normal.

Magnetos due check at Tach: 1374.2

AD's Complied with

2015-19-07 Failure of fuel injector fuel lines, CW by inspected as per para e, next due Mx Hobbs: 1161.4

I certify that this engine has been inspected in accordance with the 100 Inspection and was determined to be in airworthy condition.

Gerald A Olson *Gerald A Olson* A&P 3455625IA

17-2020 1111.2 Oil change, removed and replaced filter (CH48110-1)
Serviced with 10 qts Phillips 20W50
Ed Petkus 3295585

Corporate Air Center



**N616AR Model: PA32R-301T S/N3257423
Engine: TIO-540-AH1A S/N: L-12333-61A**

Date 4-28-2021

Burlington, WA 98233
15452 - Airport Drive
Phone (360) 757-7757
Fax (360) 757-1557

Complied with Engine 100HR inspection in accordance with FAR part 43 appendix D, All work has been accomplished using Piper PA32R-301T and Lycoming TIO-540 AH1A manuals.

1. AD2015-19-07 IAW Lycoming SB 342G fuel Injector line inspection.
2. AD2017-14-04 Oil cooler line inspection
3. AD2017-16-11 connecting rod inspection. Affected parts not installed
4. AD-84-26-02 Replaced engine air intake filter p/n 08-06029 next due: 4-04/21/21
5. Drained oil and collected oil sample(AOA). Inspected oil filter no defects noted.
6. Replaced engine oil filter p/n CH48110-1 and add 10 quarts of Phillips 20-50XC engine oil.
7. Performed compression check: Cyl. #1-71 #2-70 #3-71 #4-74 #5-70 #6-74.
8. Removed fuel injectors and cleaned. Reinstalled with new O-rings p/n 941-391.
9. Retimed magnetos to 20 degrees BTDC.

This Engine has been inspected in accordance with a 100HR/ Annual inspection and has been found to be in an airworthy condition.

James F. Price

James F. Price
2822851AP

airframe: 1129.7
hobs: 1129.7
engine: 1129.7
prop: 1129.7

27-2021 1159.5 Oil change, removed and replaced filter (CH48110-1)
Serviced with 10 qts Phillips 20W50, collected oil sample
Ed Petkus 3295585

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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 |
|------|-----------------------|---------------------------|------------------------------|---|
| | | | | TOTALS brought forward from previous page |



14 September 2021

N616AR
Engine

1185.9 Hobbs

Drained oil and removed filter, serviced engine with 10.5 qts 20W50 oil and replaced 1 ea. CH48110-1 oil filter. Oil fill to over 2000, washed engine and leak checked ok.

Mark C Roisen
506742944 A&P

Mark C Roisen

10-26-2021 1219.0

Drained oil & removed filter, serviced engine with 10 qts 20W50 oil & replaced CH48110-1 oil filter, oil sample taken, oil pressure 32.95583

Corporate Air Center N616AR PA-32R-301T S/N: 3257423 Hobbs: 1225.1



15452 - Airport Drive
Burlington, WA 98233
Phone (360) 757-7757
Fax (360) 757-1557

Airframe TT: 1225.1
Engine SMOH: 1225.1
Prop TSO: 1225.1

C/W an ANNUAL inspection per FAR 43 appendix D and referencing Piper PA-32R-301T Aircraft Maintenance Manual and Lycoming TIO-540-A111A O/H Manual.

1. Compression check #1 - 68/80, #2 - 69/80, #3 - 70/80, #4 - 72/80, #5 - 68/80, #6 - 70/80.
2. Drained oil, obtained oil sample (AOA), removed and inspected filter. No defects noted. Installed new AA48110-2 filter and serviced with 10qts Philips XC 20W-50.
3. C/W AD2015-19-07 par (e)(ii) - no defects noted
4. Adjusted MAP to 38.0in.
5. Installed new V-Band clamp on wastegate P/N LW-12125-3.
6. Installed 10ea new spark plugs P/N URHB36S

I certify that this Engine has been inspected in accordance with an ANNUAL/100HR inspection and has been determined to be in an airworthy condition.

05/13/2022

Brian Fitzgerald

Brian Fitzgerald AP40402791A

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