

ENGINE LOG BOOK



ENGINE MODEL: IO360ES6
ENGINE S/N: 360130
REG. NO: 156KT
WORK ORDER: 8603

Northwest Aircraft

Keystone Aviation
22285 Yellow Gate Lane
Aurora, OR 97002
Phone: 503-678-6076

DATE: 4/28/2014
A/C TSN: 1233
ENG TT: 1230
TACH: 1068.6

Engine Entries

REMOVED ENGINE, DUE TO PROP STRIKE P/N IO-360-ES S/N 360130. INSTALLED REBUILT ENGINE, P/N IO-360-ES16 S/N 1009816, USING NEW MOUNTING BOLTS, WASHERS, AND NUTS IAW CIRRUS SR-20 AMM 71-00 AND CONTINENTAL MOTORS IO-360 MAINTENANCE AND OPERATORS MANUAL. SERVICED ENGINE WITH 9 QTS OF PHILLIPS 66 20W50 MINERAL OIL. LEAK CHECK AND GROUND RUN OK.

RIGGED THROTTLE CONTROL IAW CIRRUS SR-20 AMM 76-10.

RIGGED MIXTURE CONTROL IAW CIRRUS SR-20 AMM 76-10.

RIGGED PROPELLER GOVERNOR CONTROL IAW CIRRUS SR-20 AMM 81-20.

REMOVED STANDBY ALTERNATOR, P/N BC410-1 S/N 1132364. INSTALLED OVERHAULED STANDBY ALTERNATOR, P/N BC410-1 S/N 0353520, IAW CIRRUS SR-20 AMM 24-30.

REMOVED PROPELLER GOVERNOR, P/N C29OD3R/T23 S/N 051615, AND SENT OUT FOR OVERHAUL. REINSTALLED OVERHAULED UNIT IAW CIRRUS SR-20 AMM 61-20.

REMOVED #1 ALTERNATOR. INSTALLED ALTERNATOR SUPPLIED BY CONTINENTAL MOTORS, P/N ES4024-LP S/N H-M070880, IAW CIRRUS SR-20 AMM 24-30 AND CONTINENTAL INSTALLATION DRAWING #655067 REV C.

Maintenance Release-

The aircraft and/or component(s) on 156KT was repaired and inspected in accordance with current FARs rules of the Federal Aviation Regulations and was found Airworthy for return to service. Pertinent details of the repair are on file at Northwest Aircraft under Work Order No. 8603.

DATE: 4/28/2014

SIGNED:

CRS# K5S2339N

Work Order: 8603

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ENGINE MODEL: IO360ES16B
ENGINE S/N: 1009816
REG. NO: 156KT
WORK ORDER: 8682

Northwest Aircraft

Keystone Aviation
22285 Yellow Gate Lane
Aurora, OR 97002
Phone: 503-678-6076

DATE: 5/2/2014
A/C TSN: 1233
ENG TT: 0
TACH: 1068.6

Engine Entries

ENGINE HAS BEEN INSPECTED FOR A 100 HOUR INSPECTION PER FAR 43 APPENDIX D AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION AND IS APPROVED FOR RETURN TO SERVICE FOR THE WORK PERFORMED AT THIS TIME AND DATE.

Maintenance Release-

The aircraft and/or component(s) on 156KT was repaired and inspected in accordance with current FARs rules of the Federal Aviation Regulations and was found Airworthy for return to service. Pertinent details of the repair are on file at Northwest Aircraft under Work Order No. 8682.

DATE: 5/2/2014

SIGNED:

CRS# K5S2339N

Work Order: 8682

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ENGINE MODEL: IO360ES16B
ENGINE S/N: 1009816
REG. NO: N156KT
WORK ORDER: 8878



Keystone Aviation
22225 Yellow Gate Lane
Aurora, OR 97002
Phone: 503-678-6076

DATE: 12/30/2014
A/C TSN: 1252.2
ENG TT: 30.9
TSMOH: 30.9
TACH: 495.8

Engine Entries

Replaced engine oil with new (XC 20W-50) and replaced engine oil filter with new, CH48109-1. Oil sample was taken for analyses. Ground leak checks good at this time. All work performed I.A.W. T.C.M. maintenance manual. Adjusted engine idle RPM to be within published limits. All work performed I.A.W. T.C.M. maintenance manual.

Maintenance Release-

The aircraft and/or component(s) on N156KT was repaired and inspected in accordance with current FARs rules of the Federal Aviation Regulations and was found Airworthy for return to service. Pertinent details of the repair are on file at Keystone Aviation under Work Order No. 8878.

DATE: 12/30/2014

SIGNED:

CRS# K5S2339N

Work Order: 8878

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ENGINE MODEL: IO360ES16B
ENGINE S/N: 1009816
REG. NO: N156KT
WORK ORDER: 8966



Keystone Aviation
22225 Yellow Gate Lane
Aurora, OR 97002
Phone: 503-678-6076

DATE: 6/10/2015
A/C TSN: 1254.3
ENG TT: 33
TSMOH: 33
TACH: 497.9

Engine Entries

ENGINE HAS BEEN INSPECTED FOR A 100 HOUR INSPECTION PER FAR 43 APPENDIX D AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION AND IS APPROVED FOR RETURN TO SERVICE.

Compression test results in order cylinder 1-6,
75/80, 71/80, 74/80, 74/80, 73/80, 76/80

Maintenance Release-
The aircraft and/or component(s) on N156KT was repaired and inspected in accordance with current FARs rules of the Federal Aviation Regulations and was found Airworthy for return to service. Pertinent details of the repair are on file at Keystone Aviation under Work Order No. 8966.

DATE: 6/10/2015

SIGNED: *[Signature]*

CRS# K5S2339N

Work Order: 8966

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JET CENTER MFR

5000 Cirrus Drive
MEDFORD, OREGON 97504
(541) 770-5314 CRS: GCPRI85E

Engine Log Entry N156KT

Engine Times

Date: 1-5-2016 TSR: 35.7
A/C TSN: 1268.7 TSO: n/a
Flight Hobbs: 512.3

- 1) Changed oil and filter (1ea CH48108-1 Filter, 8 quarts Phillips X/C 20w/50 Oil).
- 2) Oil analysis was taken (1ea GA-001 Oil Analysis).
- 3) Installed new left cylinder drain line assembly, (p/n 12186-001) and secured.
- 4) Engine was run and leak checked; no leaks were noted at this time.

The component(s) identified above was inspected and repaired in accordance with current FARs and was found airworthy and is approved for return to service. Pertinent details on file at this agency under work order no. 29816.

Richard T. Fontes

Richard T. Fontes



JET CENTER MFR

5000 Cirrus Drive
MEDFORD, OREGON 97504
(541) 770-5314 CRS: GCPRI85E

Engine Log Entry N156KT

Engine Times

Date: 5-5-2016 TSR: 1274.3
A/C TSN: 1274.3 TSO: 41.3
Flight Hobbs: 517.9

- 1) Changed oil filter (1ea CH48108-1 Filter) and inspected oil filter; no problems noted at this date.
- 2) Engine ran and Adjusted fuel flow setting to specifications per SID97-3C; engine ops checked okay.
- 3) Installed new number 6 CHT probe, (p/n 16578-001) and secured; system ops check okay with no problems noted.
- 4) Engine was run and leak checked; no leaks were noted at this time.

The component(s) identified above was inspected and repaired in accordance with current FARs and was found airworthy and is approved for return to service. Pertinent details on file at this agency under work order no. 30229.

Richard T. Fontes

Richard T. Fontes

Engine Service and Maintenance Record

Date	Total Time		Time Since Last Overhaul		Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hours	Min	Hours	Min	

Carried forward

Model: SR20
S/N: 1624
Reg. No: N156KT



Date: 28-Jun-2016
Engine TT: 82.1
A/C Hobbs: 1,656.4
A/C Flight: 558.7

Engine S/N: 1009816

Inspections Accomplished:

1002-Complied with Engine Annual Inspection. Ref AMM 05-30.

Airworthiness Directives:

-Researched ADs through 14-Jun-2016; none are due at this time.

Maintenance Accomplished:

1004-Complied with oil and filter change. Ref AMM 12. Cut open filter and inspected for metal. No metal noted at this time. Replaced oil filter and serviced with 8 quarts of Phillips 20W50 X/C oil. Oil filter P/N: CH48109-1.

Complied with cylinder compression check:

Cyl No	1	3	5	2	4	6
PSI	68/80	66/80	72/80	68/80	67/80	66/80

Master Orifice Reading: 39.

2001-No 6 EGT erratic. Removed and replaced, with new, No 6 EGT probe. Ref AMM 77. P/N: 16579-002. Ops check good at this time.

2002-Oil pressure sensor erratic. Removed and replaced oil pressure sensor with serviceable unit P/N 12635-002. Ref AMM 79.

Ops check good at this time.

2019-Appliet RTV to EGT and CHT probes to prevent chafing. Ref AMM 77.

I certify the engine identified above was inspected in accordance with an annual type inspection, as required by FAR 91.409(f)(1), found to be airworthy, and is approved for return to service with respect to the work performed. Pertinent details of the work performed are on file at this repair station under Work Package No CIR883.

Signed:
For: Corporate Flight Management, Inc.

Certified Repair Station No FJTR920D

Form CFM 007

Model: SR20
S/N: 1624
Reg. No: N156KT



Date: 30-May-2017
ETT: 173.0
Hobbs: 1,765.4
Flight: 649.6

Engine S/N: 1009816

Maintenance Accomplished:

2001-Complied with oil and filter change. Ref AMM 12. Cut open filter and inspected for metal. No metal noted at this time. Replaced oil filter and serviced with 8 quarts of Phillips 20W50 X/C oil. Oil filter P/N: AA48109.

2002-Removed and replaced No 6 CHT probe with new unit. Ref AMM 77. P/N: 16578-001.

2003-Removed and replaced No 4 EGT probe with new unit. Ref AMM 77. P/N: 16579-002.

The engine identified above was inspected and repaired in accordance with current Federal Aviation Regulations and is approved for return to service with respect to the work performed. Pertinent details of the work performed are on file at this repair station under Work Package No CIR948.

Signed:
For: Corporate Flight Management, Inc.

Certified Repair Station No FJTR920D

Form CFM 007



MurfreesboroAviation.com Phone: 615-494-1900 K.M.B.T

Make: CIRRUS DESIG

Date: 10/04/18

Engine Log

Model: SR20
S/N: 1624
Type: ContIO360ES16B
Total Time: 458.4



Reg. No.: N156KT

Tach Time: 770.60

S/N: 1009816

SOH: 458.4

Performed Annual inspection IAW FAR 43 appx D and Cirrus Design Airworthiness Limitations, referencing SR20 Inspection checklist. Compressions: #1 72/80 #2 63/80 #3 73/80 #4 68/80 #5 68/80 #6 71/80. Drained oil, cut and inspected filter, no defects noted. Installed new Tempest AA48109 filter adn serviced w/8qts of Phillips XC 20W-50 oil. Cleaned, gapped, and rotated spark plugs. Installed new BA24 Air filter element. No AD's due at this time. I Certify that this engine has been inspected IAW an Annual inspection and was found to be in an airworthy condition. Austen Kiser A&P 3745725 IA

Engine Service and Maintenance Record

Date	Total Time		Time Since Last Overhaul	
	Hours	Min	Hours	Min

Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins

Carried forward \longrightarrow

02/18/2019	772.5		308.4		<p>Removed engine for inspection due to light prop strike.</p> <p>Removed from A/F N156KT SN 1624 This Date. J. Kevin Alderman AEP 3506572</p> <p>J. Kevin Alderman 02/18/2019</p>
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PROPELLER STRIKE---CONTINUED TIME REPAIR--- This Continental engine, model, IO-360 ES(16), s/n 1009816, was disassembled due to propeller strike. All internal steel parts were magna-fluxed by Palm Beach Aircraft Propellers, CRS#LU4R349M & all non-ferrous materials checked for cracks. No hidden damage found due to incident. Crankshaft s/n N13JA188 was ultrasonic inspected by Palm Beach Aircraft Propellers, AD 97-26-17/MSB96-10B. All cylinder barrels were deglazed & new rings were installed. Piston rings were replaced. Engine was inspected for oil pressure & compression. Engine is ready for return to service.

MAINTENANCE RELEASE:
 ^ repaired as necessary _____
 This magneto was tested in accordance with Federal Aviation Administration Regulations. Approved for return to service. All parts on work order # 3495
 On record at Eagle Magneto Inc.

SERVICEABLE PARTS TAG
 ^ overhauled per app'r Mfr Manual

Manufacturer Bendix/TCM Slick/Champion Model 56L5C-25
 Serial Number D14AA096R Part Number BL 500556-3

Notes: 500 hr complete See AD compliance record dated _____
 Signed [Signature] Cert# [Signature] Date 02-21-19

Eagle Magneto Inc
 404 United Drive New Smyrna Beach, FL 32168
 Office 386-410-4710 Cell 386-235-3152
 www.eaglemagneto.com

LH

- NUT-CONNECTING ROD
- WAL-LOCK NUT
- EXHAUST NUT
- TAB WASHER
- WASHER-TIE
- OIL FILTER
- BEARING-NECKLE
- RING-RETAINING-INT
- BEARING-ROLLER
- SEAL-TACH DRIVE
- KEY WOODRUFF
- KEY WOODRUFF
- KEY WOODRUFF
- BUSHING-MAG DRIVE COUP
- PROP GOVERNOR GASKET
- RING SET

Authorized Signature _____

Frank Neves, Jr.

Date: 05/17/2019

Invoice/Work Order Number: 6880152064

	772.5		308.4		<p>Reinstalled engine & Accs After inspection test ran 1 hour. Inspected JAW An Annual inspection Checked prop gov linkage JAW CIRCUIS M.M.</p> <p>This Engine has been inspected JAW An Annual inspection AS per CFR 43 Approved And is Airworthy At this time</p> <p>Jimmie Kevin Alderman AEP ISA 3506572 for Ken Cole May 15 2019</p>
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Remove from A/F N156KT SN 1624
 This Date - J. Kevin Alderman AEP 35065
 J. Kevin Alderman 02/18/2019

PROPELLER STRIKE ~ ~ CONTINUED TIME REPAIR ~ ~ This Continental engine, model, IO-360 ES(16), s/n 1009816, was disassembled due to propeller strike. All internal steel parts were magna-fluxed by Palm Beach Aircraft Propellers, CRS#LU4R349M & all non-ferrous materials checked for cracks. No hidden damage found due to incident. Crankshaft s/n N13JA188 was ultrasonic inspected by Palm Beach A/C Prop, per AD 97-26-17/MSB96-10B. All cylinder barrels were deglazed & new rings were gapped & fitted. Installed Bendix magnetos, OHC by Eagle Magneto, A&P #268866217. Engine was reassembled according to guidelines from TCM OH Manual X30594A & SB 96-11B regarding propeller strikes, & then given a 1 hr performance run on test stand with all temps, compressions, & pressures within those as prescribed by the factory. Oil filter checked clean. This engine is ready for return to normal service. TSFN is 308.4.

- 10 654439-16
- 1 SA646543-A1
- 1 530917
- 4 SA639580
- 1 SA631928
- 8 SA639198
- 2 643626-110
- 2 643626-111
- 8 653143
- 8 SA629004
- 1 646597A1
- 12 SA642338
- 4 SA630692
- 4 654586
- 12 655959

- INTAKE HOSE
- GASKET SET
- SEAL-OIL CRKSHAFT
- CRANKSHAFT BLADE BUSHING
- HOSE
- COUNTERWEIGHT BUSHING
- PIN-CRANKSHAFT C/W
- PIN-CRANKSHAFT C/W
- PLATE-RETAINER PIN CWT
- LOCK RING
- BEARING SET
- CONN ROD BEARING
- SCREW
- SCREW
- BOLT-CONN ROD

- 12 654487
- 2 636931
- 12 SA22022
- 4 36025
- 25 501867
- 1 CH48108-1
- 1 641368
- 1 502287-3
- 1 630680
- 1 641633
- 3 MS35756-8
- 1 MS35756-6
- 1 MS35756-3
- 4 655269
- 1 AA9144
- 6 SA3610-8C P05

- NUT-CONNECTING ROD
- NUT-LOCK SELF
- EXHAUST NUT
- TAB WASHER
- WASHER-TAB
- OIL FILTER
- BEARING NEEDLE
- RING-RETAINING-INT
- BEARING-ROLLER
- SEAL-TACH DRIVE
- KEY WOODRUFF
- KEY - WOODRUFF
- KEY WOODRUFF
- BUSHING-MAG DRIVE COUP
- PROP GOVERNOR GASKET
- RING SET

Certified Engines Unlimited, Inc

Authorized Signature

Frank Neves, Jr.

Pembroke Pines, FL 33023 USA

FAA CRS# KG4R309M

Date: 03/31/2019

Invoice/Work Order: 68801/52064

Engine Service and Maintenance Record

Date	Total Time		Time Since Last Overhaul		Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hours	Min	Hours	Min	

Carried forward →

N156KT Engine IO360ES16B SN 1009816 TSFN 304.8 May 15, 2019.

Installed OH prop governor PN C290D3R/T23 SN 051615. Ops check OK.

Hobbs 1956.1 Flight 7725

This engine is approved for return to service.


 Jimmie Kevin Alderman A&P 3506572


06/05/2019 1966.3
 TSFN 315.2

PIZZA NEW OIL, Remove Filter - Replaced filter w/ Tenquest AA481082 - Filled w/ 8 qts Phillips 20W-50. OPS CHECK OK - LEAK CHECK, 9012. This aircraft is approved

1 Feb 2022
 Hobbs Time: 2467.3
 Tach Time: 1196.7

Make: Continental
 Model: IO-360-ES16B
 Serial # 1009816


Engine compression test performed, #1 76/80 #2 78/80 #3 72/80 #4 74/80 #5 75/80 #6 73/80. Mag timing checked. Oil & filter changed. 7 quarts of Phillips 20W-50 oil and new filter installed. # 2 cylinder removed and replaced due to low compression. Engine ran for leak and operations checks. I certify that this engine has been inspected in accordance with an Annual Inspection and was determined to be in an airworthy condition. All AD's are current/complied with per ATP Navigator updated 1 Feb 2022.


 Jason A. Zwart
 A&P/IA 3736574IA

Date	Total Time		Time Since Last Overhaul		<i>Engine Service and Maintenance Record</i> Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hours	Min	Hours	Min	


Engine Log Book Entry
 N156KT Continental IO-360-BS Serial # 360130
 Feb. 16, 2023 Tach: 2615.7 Hrs.

Complied with an Annual inspection. Drained oil, installed new oil filter CH48108-2, serviced engine with 8 quarts Phillips 20w-50 oil. Ground ran engine. Compression test: 1\76, 2\76, 3\70, 4\66, 5\76, 6\68. No leaks noted. All AD's complied with through this date. I certify that this engine has been inspected in accordance with an Annual inspection and was determined to be in an airworthy condition.

Russell Melton  AP3685486IA

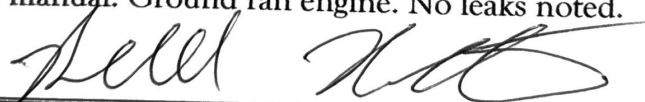
Airframe Log Book Entry
 N156KT Cirrus SR20 Serial # 1624
 Oct. 13, 2023 Tach: 2745.9 Hrs.

Installed new lower brake hose on right MLG assy. Part # 350-4-0072. Bled brakes. No defects found.

Russell Melton  AP3685486IA

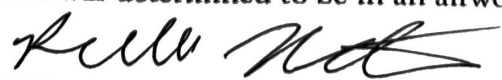
Engine Log Book Entry
 N156KT Continental IO-360-BE Serial # 360130
 Oct. 13, 2023 Tach: 2745.9 Hrs.

Installed two serviceable cylinder assemblies part # 655479CP at #4 and # 6 positions. See J&J Airparts work order #'s 75059-01 & 75672-02 for repair details. All maintenance performed IAW TCM IO-360 service manual. Ground ran engine. No leaks noted.

Russell Melton  AP3685486IA

Engine Log Book Entry
 N156KT Continental IO-360-BE Serial # 360130
 Feb. 20, 2024 Tach: 2807.2 Hrs.

Complied with an Annual inspection. Drained oil, installed new oil filter CH48108-2, serviced engine with 8 quarts Phillips 20w-50 oil. Ground ran engine. Compression test: 1\74, 2\78, 3\75, 4\78, 5\76, 6\78. No leaks noted. AD 23-17-04 does not apply due to manufacturer. All AD's complied with through this date. I certify that this engine has been inspected in accordance with an Annual inspection and was determined to be in an airworthy condition.

Russell Melton  AP3685486IA