



The Standard

ENGINE LOG

ASA-SE-2

Engine Record General Information

Manufacturer Lycoming Model IO-360-L2A
Serial L-27773-S1A Type Certificate _____
This engine is currently installed in aircraft: N10033

ENGINE MAINTENANCE RECORD



AIRCRAFT SERIAL AND REGISTRATION 17254797, N10033
ENGINE MODEL AND SERIAL IO-360-L2A L-27773-S1A

PACIFIC CONTINENTAL ENGINES, INC.

Engine Warranty

Engine Model: IO-360-L2A Engine Serial No.: L-27773-51A Warranty Number: 1767 Date: 5/20/2020

FULL WARRANTY

PACIFIC CONTINENTAL ENGINES, INC. warrants this ENGINE to be free from defects in material and workmanship under normal use for a FULL TWELVE (12) MONTHS or FIVE HUNDRED (500) HOURS, whichever occurs first, from date of installation or TEN (10) days after shipment date, whichever is applicable.

LIMITED WARRANTY

Additionally, cylinders, crankshaft and crankcase are further warranted on a pro-rated basis to the recommended T.B.O. of the engine, at a minimum rate of 40 hours per month except that no labor allowance will exist for the period between the end of the FIRST TWELVE (12) MONTHS and the recommended T.B.O. of the engine.

TERMS AND CONDITIONS

Warranty service may be accomplished at facilities other than Pacific Continental Engines, Inc. but ONLY AFTER PRIOR WRITTEN APPROVAL from Pacific Continental Engines, Inc. and provided all work is performed at prevailing rates with Pacific Continental Engines, Inc. retaining the option to furnish all parts.

This warranty is VOID on this engine and its accessories if they have been repaired or altered outside the Pacific Continental Engines, Inc. facility WITHOUT PRIOR WRITTEN APPROVAL or have been operated contrary to manufacturer's operating instructions or subject to misuse, neglect, accident, use of improper fuel, or operated in a manner different from its original FAA certificated configuration (such as, but not limited to engine RPM, temperature, manifold pressure, fuel flow, and improper adjustment), subsequent to installation or shipment from Pacific Continental Engines, Inc.

This warranty expressly excludes shipping expense, liability to user or passengers, loss of revenue, or loss of use, with reference to operation and performance of this engine.

All engine accessories are guaranteed for one year or 500 hours, whichever occurs first. Engine accessories are defined as follows: Continental and Lycoming fuel injection systems (fuel servo, throttle control, fuel pump, flow divider, nozzle lines, nozzles), Carburetor, Magneto, Starter, Alternator, Generator, Vacuum Pump, Tach Generator, Hydraulic Pump, Primer Driver Valve, Exhaust System, Turbo Charger, Westgate, Controller, and Pressure Relief Valve.

WARNING ... Automotive fuels are not recommended for use in aircraft engines. The use of any fuel other than the proper octane of an aviation grade fuel will void all warranties.

The amount of TROUBLE-SHOOTING costs allowed will be the reasonable costs under the circumstances of identifying the need for such repairs or replacements, but in no event will the TROUBLE-SHOOTING cost allowance exceed fifteen percent (15%) of the reasonable labor costs associated with such repairs or replacements.

Pro-rate warranty will be computed as follows: When repair or replacement is made the owner will pay a set price for a replacement engine or part valued in effecting such repair or replacement which will equal the current list price of the replacement engine or part divided by the total number of hours of warranty coverage (TBO) and then multiplied by the total number of warranty hours or actual hours, whichever is greater, on the repaired or replaced engine.

Warranty repair or replacement of any part shall not extend this warranty beyond the original warranty term or hour limitation.

Original manufactured component or on-board systems registration documentation must be completed and registered with the respective manufacturer.

This warranty applies to engines installed, inspected and maintained in accordance with Federal Aviation Regulations, instructions for continued airworthiness, applicable service bulletins, service directives, service letters, service instructions, the aircraft manufacturer's airworthiness or component manufacturer. Compliance with recommended maintenance and inspection must be documented by appropriate logbook entries, and the original engine logbook must be made available to representatives of PCE when applying for warranty consideration.

For all warranty questions call (800) 841-5555 or (208) 283-1111. Please provide the Engine Number to expedite all claims.


Authorized Signature

YEAR
20
DATE

PACIFIC CONTINENTAL ENGINES, INC.

21 W. Easy St. Unit 103 Simi Valley, CA 93065

(818)899-5200 FAX (818)899-5300

FAA APPROVED REPAIR STATION #TZ3R885L

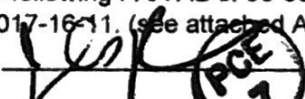
RECORD OF ACCESSORIES AND MAJOR PARTS SHIPPED WITH ENGINE

Repairs and Alterations

ing and Certificate Number of
ages for other specific entries.)

DESCRIPTION	PART NUMBER	SERIAL NUMBER	STATUS	TI	TSO	WORK BY
Alternator	N/S					
Starter	149NL/EC	H-T080226	N	0	0	HARTZELL
LH Magneto	4371	05082843	O	N/A	0	PCE
RH Magneto	4371	15040398	O	N/A	0	PCE
Fuel Servo	2576536-2	7209TV20	O	N/A	0	Prec Air
Fuel Pump	AF-15473	074324	N	0	0	Aero Acc
Flow Divider	2576532-1	0151231	O	N/A	0	PCE

NOZZLE ASM: LW-18265 SPARK PLUGS: UREM38E HARNESS: KA14002

COMMENTS: Installed Lycoming new SAP cylinder kits p/n SL36006W-A20P (s/n's 366WK1924-535, -538, -540, and -542 on SAP 8130-3 #552362), camshaft p/n LW18840, lifter p/n SL72877, and oil pump gear p/n's LW18109 and LW18110. Reinstalled crankshaft f/n 13B27121 s/n V53792715 after repair by Aircraft Specialties on 8130-3 #ASI-095467. Reinsialled crankcase c/n C11D20071-R m/n K1197 after repair by DIVCO on 8130-3 #DIV WDC#120332. Complied with the following Lycoming service bulletins: 240W, 505B, 530B, 475C, and 632B. Complied with the following FAA AD's: 96-09-10, 98-02-08, 2004-10-14, 2009-02-03, 2015-19-07, and 2017-16-11. (see attached AD compliance list).—END— Authorized Signature:  (Air Agency #TZ3R885L).

N - NEW

O - OHC

R - REBUILT

Engine entry

Ben Diaz A&P 3827189

YEAR 20____	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.)
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June 24, 2020

Engine TT - 00.0 Hrs

TSO-00.0 hrs

Tach-5318.5

Serial No. L-27773-51A

This Engine (Lycoming IO-360-L-2A) has been inspected in accordance with an Annual Inspection and it was determined to be safe for service this date June 24, 2020. Checked and found that all applicable ADs were previously complied with at overhaul and installed this Engine on N10033 this date.

Arnolfo A. Diamond 19466391A

7-15-2020

Engine TSO-33.5

Tach-5352.0

Hobbs-7436.9

Engine entry

Removed cowlings and drained engine oil and replaced oil filter. Serviced with 8 quarts of Phillips 20-50XC and installed one new CH48110-1 oil filter. Removed bottom spark plugs and inspected, cleaned, and reinstalled. Performed compression check, all cylinders were found to be high 70's. Installed plugs and leads at this time. Reinstalled cowlings at this time.

Ben Diaz AP3827189

YEAR 20 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.)
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8-18-2020 Engine TSO-104.4 Tach-5398.0 Hobbs-7498.9 Engine entry

Drained engine oil and removed oil filter, serviced with 8 quarts of aeroshell 100 sae 50 and installed one new CH48110-1 oil filter at this time. Removed all spark plugs, inspected, cleaned, and checked gap at this time. Checked magneto to engine timing. Performed compression check at this time, cyl #1 79/80 #2 79/80 #3 79/80 #4 79/80. **Complied with AD 09-02-03** Fuel injection servo plug gasket, visually inspected plug per para (G)(H) of AD. **Complied with AD15-19-07** fuel injection lines and clamps, Inspected IAW MSB 342G, no defects noted. Performed engine run up and leak check at this time.


Ben Diaz A&P 3827189

12-10-2020 Engine TSO-192.7 Tach-5485.3 Hobbs-7622.5 sn# L-27773-51A

Inspected engine IAW 100 hour inspection, 14 CFR43 D. Drained engine oil, removed oil filter. Serviced with 7 quarts of aeroshell 100 sae 50 and one container of avblend. Installed one new CH48110-1 oil filter. Removed, cleaned inspected and checked gap on all spark plugs. Performed compression check at this time, cyl #1 79/80 #2 77/80 #3 76/80 #4 75/80. **Complied with AD 09-02-03** fuel injection servo plug gasket, visually inspected plug per para (G)(H) of AD, gasket pn 2577258 installed at overhaul dated 5-20-2020. **Complied with AD 15-19-07** fuel injection lines and clamps, Inspected IAW MSB 342G, no defects noted. Performed engine run up an leak check at this time.


Ben Diaz AP3827189

YEAR 20__	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)
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6-9-21

Tach-5646.0

Hobbs-7844.3

TSO-353.2

Engine serial # L-2773-51A

Drained engine oil and removed filter, serviced with Aeroshell 100 sae 50 and installed one new CH48110-1 filter at this time. Removed, cleaned, inspected and checked gap on all plugs. Performed compression check at this time, cyl #1 78/80 #2 76/80 #3 7/80 #4 70/80. Inspected all fluid carrying lines, inspected ignition harness and all electrical wiring. Checked magneto to engine timing, check good. Degreased engine and performed run up and leak check, check good at this time, Reinstalled cowings.

Ben Diaz
Ben Diaz AP 3827189

June 9,, 2021

Engine TT - 5646.0 hrs

Tach - 5646.0

Hobbs - 7844.3

SN - L-27773-51A

This Engine (Lycoming, IO-360-L2A) has been inspected in accordance with an Annual Inspection and it was determine to be safe for service this date June 9, 2021. Checked and found that all applicable ADs were previously complied with. Recurring AD 09-02-03, RSA -5 or RSA -10 Series - Fuel Servo Plug Gasket - Visually inspected Plug per para (g) (h) of AD, No visible damage/ defect noted. and P/C/W - Gasket P/N 2577258 installed at Fuel Servo

A. Domondon
A. Domondon, 19466391A

YEAR
20

DATE

RECORDING
TACH
TIME

TODAY'S
FLIGHT

TOTAL
TIME IN
SERVICE

Description of Inspections, Tests, Repairs and Alterations
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Ben Diaz AP3827189

Tach-5703.7 TSO-410.9 Engine entry Serial # L-27773-51A

7-29-21

Hobbs-7923.6

Performed 50 hour service on engine at this time, drained engine oil and removed filter. Serviced engine with 7 quarts of aeroshell 100 SAE 50 and installed one new CH 48110-1 oil filter at this time. Removed bottom spark plugs, checked compression, all were found to be above 70/80, cleaned lower spark plugs and checked gap at this time. Degreased engine and reinstalled cowings at this time.

Ben Diaz AP 3827189

12-2-21
5812.6
8071.8

Engine Removed for repair due to oil leak at this time.

Ben Diaz AP3827189

YEAR 20__ 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.)
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Crystal Aircraft Maintenance
3143 W Woodridge Dr
Phoenix, AZ 85053
Phone (928) 710-0533

N10033 Engine: Lycoming **Model:** IO-360-L2A **S/N:** L-27773-51A **Tach:** 5,746.3 **AFTT:** 5,746.3
SMOH: 427.8 **ETT:** 4,714.1 **Date:** 9-29-2021

- Complied with 100hr engine inspection.
- Compressions are as follows: 1) 75/80 2) 75/80 3) 75/80 4) 75/80
- Serviced engine with 8 quarts of A/S 100w oil.
- Inspected old oil filter for metal. None noted. Replaced oil filter
- Cleaned and gapped all plugs.
- Check magneto timing.
- Inspected engine baffle for cracks.
- Inspected fuel servo for condition and security.
- Inspected exhaust and stacks for condition and security.
- Lubed all engine controls.
- Ground run engine and leaked checked. No leaks noted at this time.
- **AD# 09-02-03** Fuel Injector Servo effective date 2-9-2009 no longer applies per paragraph (k). Gasket P/N 2577258 installed
- Complied with **AD# 2015-19-07** Fuel Injector lines effective date 11-3-2015 I/A/W Par (e) (ii). No defects noted at this time.
- **due at AFTT: 5,856.3 or when any line is disconnected, moved or loosened.**

I certify this engine and/or components identified herein was repaired and/or inspected in accordance with FAR 43 Appendix and is approved for return to service.


Chris Cottrell 3035732 A&P


YEAR 20	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.)
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DATE: 29/MAR/2022
TACH: 5812.06
HOBBS: 8071.8
TOTAL TIME: 5812.6
TSMOH: 494.1
Work Order: A9929

ENGINE LOGBOOK INSERT
PACIFIC CONTINENTAL ENGINES, INC
21 W EASY STREET, UNIT 103
SIMI VALLEY, CA 93065
(Air Agency #TZ3R885L)

MODEL: Cessna 172S
S/N: 172S9797
REG. #: N10033
Engine Model: IO-360-L2A
Engine S/N: L-27773-51A

1. This engine was removed by Ben Diaz (AP3827189) for an oil leak at the top crankcase parting surfaces. Customer crankcase was returned to DIVCO for inspection and repair. This is an in-service time continued repair. All engine accessories were reinstalled in as-is condition unless noted below.
2. This engine was partially disassembled, visually and partially dimensionally inspected, reassembled, and test cell run-in performed. Customer crankcase c/n 11D20071-L m/n K1197 was repaired by DIVCO on 8130-3 #DIV WDC#13460. Customer cylinders were static valve leak checked and honed for standard ring finish. No other cylinder work was performed at this time. Complied with the following Lycoming service bulletins/instructions: MSB342G, and MSB475C. The following Lycoming service bulletins were previously complied with: MSB505B and MSB530B. Final engine test cell run-in checked okay for leaks and boroscope inspections. Final cylinder compression numbers are the following: 1-74/80, 2-76/80, 3-76/80, and 4-76/80.
3. The following new parts were installed at this repair: 1-SL13792 seal, 1-SL75439-1 gasket set, 1-SL18639 plate, 8-SL12892 button, 1-MS16625-2081 ring, 1-AA48110-2 filter, 1-SL-STD-1211 plug, 4-SL3601-SC ring set, 8-REM38E plug, 1-SL68761 tube, and miscellaneous attaching hardware.
4. This engine was partially inspected and repaired in accordance with Lycoming manuals 60294-7-14, PC-406-L2A, and current regulations of the FAA and is approved for return to service.

John Jackson

Chief Inspector



YEAR 20____	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.)
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7-01-23

Tach-5812.6

TSO-494.1

IO-360-L2A

L-27773-51A

Reinstalled engine after repair by Pacific Continental engines was completed, all Baffle, hoses, exhaust, fuel system, vacuum and electrical system were reinstalled at this time. Installed new scatt hose where necessary. Performed engine run up and leak check at this time. check good. Complied with AD 01-06-17, set and adjusted idle mixture at this time, next due 12 months. Complied with AD 15-19-07, fuel injector lines and clamps, visual inspection IAW MSB 324G, no defected noted at this time. Serviced engine with 7 quarts of aeroshell 100 SAE 50 and replaced oil filter at this time, installed 1 new AA48110-2 filter. Installed one new vacuum pump pn-AA3216CW serial # 10PV15 at this time.

Ben Diaz AP3827189