

N 89737



The Standard

ENGINE LOG

ASA-SE-2

#3

Engine Record General Information

Manufacturer LYCOMING **Model** O360-A3A

Serial L-9116-36A **Type Certificate** _____

This engine is currently installed in aircraft: N8973J

Minimum Octane Fuel _____ **Oil Grade** Summer _____ Winter _____

Magneto Time _____ **Point Setting** _____ **Firing Order** _____

Spark Plug Gap _____

Manufacturer's Recommended Overhaul at _____ **hours**

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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CERTIFIED OVERHAUL TO
NEW ENGINE TOLERANCES
ZERO-TIME EQUIVALENT

MH Aviation, Inc.
4555 WEST AVE "G"
LANCASTER, CA 93536
661.341.2025
661.948.7719 FAX
WJF

MAKE Lycoming
MODEL 0-360-A3A
S/N L-9116-36A
HOURS SINCE MAJOR OVERHAUL 0.00

THIS ENGINE WAS REPAIRED AND INSPECTED IN ACCORDANCE
WITH CURRENT FEDERAL AVIATION REGULATIONS AND IS
APPROVED FOR RETURN TO SERVICE PERTINENT DETAILS OF

THE
REPAIR ARE ON FILE UNDER

WORK ORDER NUMBER 8973J

DATE 11/01/2013

Michael H. Grey
AUTHORIZED SIGNATURE
Michael H. Grey
2839678
A&P

TOTAL TIME ON ENGINE
BEFORE OVERHAUL 4885.8 Hrs.

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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MH Aviation, Inc.
805.341.2025

4555 West Ave "G" (WJF)
Lancaster, California 93536

Date 11/01/2013 Tach 4885.8 Hrs.
TSMO 0.00 Hrs. TSN 4885.8 Hrs.
Engine Make/Model Lycoming 0-360-A4A

Aircraft N8973J
W.O. 8973J
Serial # L-9116-36A

This engine disassembled, cleaned, inspected and re-assembled after the following work: Crankshaft rods and mains polished-standard, SB 505B/530B performed, NDT inspected and balanced, connecting rods NDT inspected, rebushed and balanced all by Lycon Engines, camshaft and lifter bodies reground all by Aircraft Specialties Services of Tulsa, OK. Crankcase milled and line bored by Crankcase Services, Inc. of Sand Springs, OK. All other parts NDT inspected by Lycon Engines. The following parts were replaced at engine reassembly: Seal p/n SL13792, con rod bearings p/n 18M26105, main bearings p/n 18D26096/18A26093, con rod nuts p/n SL12186, con rod bolts p/n 74644, gasket kit p/n SL75439-1, intake hoses p/n SL69603, crankshaft bolt p/n SL-STD2213, lok plate p/n LW18639, tach pin p/n LW18667, o-rings p/n 72075/72091, bolt idler gear p/n STD2167, nut idler gear p/n STD2168, bolt p/n LW255-1.50, nut p/n STD2249, intercylinder baffle p/n 75339, tach shaft p/n 76121, cylinders overhauled by Lycon Engines with new pistons P010, exhaust guides and valves, intake guides, piston pins, rocker shafts and "Flow Matched" p/n LW-12427, s/n A018108/A0191011/A020102/A356091
continue next page,

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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M/A Aviation, Inc.
805.341.2025

4555 West Ave "G" (WJF)
Lancaster, California 93536

Date 1/31/2014
ACTT

Tach 4910.13 Hrs.
SMO 24.33 Hrs.

Aircraft N8973J
STOH

Changed oil and filter, filter cut open-no abnormal debris noted, cleaned, gapped and tested all spark plugs, checked magneto timing, ground ran for ops and leak check-good. Aircraft returned to service only for work performed at this time.

Michael Haney
Michael Haney
2839678 A & P

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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M/A Aviation, Inc.
805.341.2025

4555 West Ave "G" (WJF)
Lancaster, California 93536

Date 03/28/2014
ACTT 4921.26 Hrs.

Tach 4921.26 Hrs.
SMO 35.46 Hrs.

Aircraft N8973J
STOH

Cleaned, gapped and tested all spark plugs and checked magneto timing. I certify that this engine has been inspected in accordance with a 100 hours inspection and was determined to be in airworthy condition and was returned to service.

Michael Haney
Michael Haney
2839678 A & P

Date 3/28/14 Tach 4921.26 Hrs.

SMO 35.46 Hrs.

I certify that this aircraft / engine has been inspected in accordance with an ANNUAL inspection and was determined to be in airworthy condition per applicable PIPER service manual.

Signature: *Michael Haney* 2839678 A & P

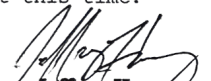
YEAR 20 DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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MHC Aviation, Inc.
805.341.2025

4555 West Ave "G" (WJF)
Lancaster, California 93536

Date 08/5/2014 **Tach** 4932.74 Hrs. **Aircraft** N8973J
ACTT **SMO** **STOH**

Performed 25 hours inspection IAW Lycoming service manual. Serviced engine with 7 Qts Phillips 20W-50 mineral oil, cleaned, gapped and tested all spark plugs, checked magneto timing. Ground ran for leaks and ops check-good. Engine returned to service only for work performed at this time.


Jeffrey Haney
3210092 A & P

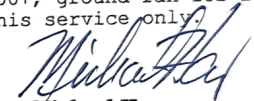
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MHC Aviation, Inc.
805.341.2025

4555 West Ave "G" (WJF)
Lancaster, California 93536

Date 09/22/2014 **Tach** 4968.69 Hrs. **Aircraft** N8973J
ACTT **SMO** **STOH**

Changed oil and filter, filter cut open-no abnormal debris noted, installed new filter, serviced 7 Qts. Aeroshell W100+, ground ran for leak and ops check-good. Engine was returned to service for this service only.



Michael Haney
2839678 A & P

MHC Aviation, Inc.
805.341.2025

4555 West Ave "G" (WJF)
Lancaster, California 93536

Date 01/20/2015 **Tach** 4989.45 Hrs. **Aircraft** N8973J
ACTT **SMO**

Removed and replaced alternator with overhauled unit p/n 4111810, s/n off H-0010383, s/n on N-0120893. All work performed in accordance with the Lycoming service/parts manuals. Engine returned to service for the work performed above only.


Michael Haney
2839678 A & P

PEARCE AIRCRAFT SERVICES, INC.

MEADOW LAKE AIRPORT 8264 CESSNA DR PEYTON, CO 80831 719 683 3314 719 683 4220 fax

DATE	TYPE	SERIAL	TACH	TIS / TSOH	REGISTRATION
06-20-2016	O360-A3A	L-9116-36A	5082.5	5082.5 / 196.7	N8973J

1. Inspected and serviced using Piper 230 207 checklist as a guide.
2. Compression check:

#1-78/80	#2-78/80	#3-77/80	#4-78/80
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3. Drained and serviced the oil with 7 quarts of Aeroshell 100W+. Sample taken.
4. Replaced the oil filter with a new AA48110-2 oil filter.
5. Cut the old filter. No metal found.
6. Added two AN960-10 washers to the oil pressure relief valve.
7. Run for power and leak check.

I certify that this engine has been inspected in accordance with a 100 hour inspection and was determined to be in an airworthy condition.

 Robert K Taylor A&P 3786170 IA

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of
es.)



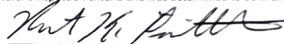
Peak Aviation
1587 Aviation Way
Colorado Springs, Colorado, 80916

N8973J
Engine Maintenance Log Entry

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ber of
entries.)

Entry	Date	Total Hours	Tach Time	Hobbs	Description of Work Completed	Mechanic	FAA Cert
1	07/04/17	5099.8	5099.8	---	Performed an ANNUAL inspection on Engine IAW Lycoming maintenance manuals. Engine TSOH: 214. Compression Checks as follows: Cyl. 1: 78/80, Cyl. 2: 74/80, Cyl. 3: 75/80 and Cyl. 4: 75/80. Removed, Cleaned, inspected and gapped spark plugs. Serviced engine with 7 quarts of Aeroshell W100+. Replaced oil filter with Tempest PN: AA48110-2. Cut open and inspected filter. No Particles noted at this time.	Robert K Pickett	A&P 3710569 IA

I certify this ENGINE has been inspected in accordance with an 100-HOUR INSPECTION as per the engine manufacturer's inspection criteria and was determined to be in an AIRWORHTY condition.



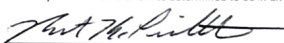


Peak Aviation
1587 Aviation Way
Colorado Springs, Colorado, 80916

N8973J
Propeller Maintenance Log Entry

Entry	Date	Total Hours	Tach Time	Hobbs	Description of Work Completed	Mechanic	FAA Cert
1	07/04/17	2697.9	5099.8	---	Performed an ANNUAL inspection on propeller IAW applicable Sensenich manuals. Dressed knicks.	Robert K Pickett	A&P 3710569 IA

I certify this PROPELLER has been inspected in accordance with an 100-HOUR INSPECTION as per the propeller manufacturer's inspection criteria and was determined to be in an AIRWORHTY condition.





Peak Aviation
1587 Aviation Way
Colorado Springs, Colorado, 80916

N8973J
Engine Maintenance Log Entry

Entry	Date	Total Hours	Tach Time	Hobbs	Description of Work Completed	Mechanic	FAA Cert
2	6/13/2018	5133.8	5133.8	2132.1	Performed an ANNUAL inspection on Engine IAW Lycoming maintenance manuals. Engine TSOH: 248. Compression Checks as follows: Cyl. 1: 73/80, Cyl. 2: 75/80, Cyl. 3: 75/80 and Cyl. 4: 73/80. Removed, Cleaned, inspected and gapped spark plugs. Serviced engine with 7 quarts of Aeroshell W100+. Replaced oil filter with Tempest PN: AA48110-2. Cut open and inspected filter. No Particles noted at this time. Replaced aft exhaust muffler due to hole in muffler.	Robert K Pickett	A&P 3710569 IA

I certify this ENGINE has been inspected in accordance with an ANNUAL INSPECTION as per the aircraft manufacturer's inspection criteria and was determined to be in an AIRWORTHY condition.

John H. Prouty



Peak Aviation
1587 Aviation Way
Colorado Springs, Colorado, 80916

N8973J
Propeller Maintenance Log Entry

Entry	Date	Total Hours	Tach Time	Hobbs	Description of Work Completed	Mechanic	FAA Cert
2	6/12/2018	2731.9	5133.8	2132.1	Performed an ANNUAL inspection on propeller IAW applicable Sensenich manuals. Dressed knicks.	Robert K Pickett	A&P 3710569 IA

I certify this PROPELLER has been inspected in accordance with an ANNUAL INSPECTION as per the aircraft manufacturer's inspection criteria and was determined to be in an AIRWORTHY condition.

John H. Prouty

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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Hangar 18 Aviation LTD

Date: 18 June 19 Registration: N8973J Model: PA-28-180 Serial: 28-2996
Tach Time: 5281.06 Engine Model: O-360E-A3A Serial: L-9116-36A *ACT: 5281.06*
Changed engine oil and oil filter. Serviced engine with 7 quarts of engine oil.

James T. Prouty
James T. Prouty, A&P/IA, 2665709

Hangar 18 Aviation LTD

Date: 7 July 19 Registration: N8973J Model: PA-28-180 Serial: 28-2996
Tach Time: 5314 Engine Model: O-360E-A3A Serial: L-9116-36A *ACT: 5314.0*
Removed, cleaned, and tested all spark plugs, replaced engine oil dipstick and filler neck. Performed annual inspection IAW part 43 Annex D, re Lycoming O-360 maintenance manual and Piper PA-28-180 100hr inspection checklist. Compression: Cylinder 1 - 78/80, 2 - 78/80, 3 - 78/80, 4 - 75/80. Engine found to be in airworthy condition.

James T. Prouty
James T. Prouty (A&P/IA, 2665709

Hangar 18 Aviation LTD

Registration: N8973J Model: PA28-180 Serial: 28-2996 Hobbs: 2341.7
ACT: 5343.4

Removed and replaced engine starter PN EZR-8011 re Lycoming O-360 maintenance manual.

James T. Prouty
James T. Prouty A&P/IA 2665709 8 Aug 19

YEAR 20 DATE	RECORDING TACH	TODAY'S FLIGHT	TOTAL TIME IN	Description of Inspections, Tests, Repairs and Alterations <small>Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)</small>
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Hangar 18 Aviation LTD

Registration: N8973J Model: PA28-180 SerialL 28-2996 **A-TT : 5359.42**

Tach time: 5359.42 Engine Model: O-360-A3A SN: L-9116-36A

Changed engine oil and oil filter. Serviced engine with 7 quarts of oil.


James T. Prouty A&P/IA 2665709-5 Sep 19

YEAR 20 DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations <small>Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)</small>
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Tango Charlie Aviation LLC

3093 Mitchell Drive Malden Mo 63863 (573) 281-2227

Engine

Lycoming O-360-A3A

Tach:5478.18

TSMOH: 592.38

This date completed compression check #1(76/80) #2(78/80) #3(77/80) #4(78/80). Checked mag timing, cleaned, gapped, and rotated spark plugs. Installed new engine air filter element BA-3. Washed and ground run engine no leaks noted.

N8973J

S/N: L-9116-36A

Date: 9/27/2021

Total Time: 5478.18

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


Terance Groher AP3690972

Tango Charlie Aviation LLC

3093 Mitchell Drive Malden Mo 63863 (573) 281-2227

Engine

Lycoming O-360-A3A

Tach:5478.18

TSMOH: 592.38

This date removed engine from N8973J serial #28-2996 for repair. Engine disassembled, cleaned and inspected. Installed new crankcase from Colorado Airparts p/n SL36800-W11. Reassembled engine with new main bearings SL13884A and SL16711A. Installed new rod bearing SL13521A, rod bolts SL74644 and rod nuts SL12186. Installed new crank gear bolt part#SL-STD-2213 with new locking tab. Engine was reassembled using new gaskets, seals and clips gasket set part#SL75439-1. Installed 4 new SL-STD-1821 drain hoses and 4 new SL-69603 intake hoses. Serviced engine with 9qts of Phillips 20w50 oil and CH48110-1 oil filter. Reinstalled engine after engine repair, reused existing engine mounts. Complied with AD 2004-10-14C1 by replacement of crank gear bolt, next due at prop strike or overhaul. AD96-09-10 P/C/W with correct gears installed. Test ran checked normal, no leaks noted now.

N8973J

S/N: L-9116-36A

Date: 9/27/2021

Total Time: 5478.18


Terance Groher AP3690972

END OF LOG
SEE LOG II H



The

ENGINE LOG

AS4-S3-1

#4 ✓

Manufacturer LYCOMING Model O-360-A3A

Serial L-9116-36A Type Certificate _____

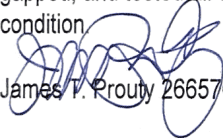
This engine is currently installed in aircraft: N8973J

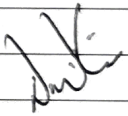
Minimum Octane Fuel _____ Oil Grade: Summer _____ Winter _____

Magneto Time _____ Point Setting _____ Firing Order _____

Spark Plug Gap _____

Manufacturer's Recommended Overhaul at _____ hours

YEAR 20____ DATE	RECORDING TACH TIME	Hangar 18 Aviation LTD N8973J Piper PA-28-180 SN 28-2996 Engine Lycoming O-360-A3A SN: L-9116-36A Tach 5386.22 ACTT: 5386.22	Technician or
		Accomplished annual inspection IAW Part 43 Appendix D RE Piper PA-28-180 inspection checklist and Lycoming O-360 service manual. Compressions: #1 79/80, #2 77/80, #3 77/80. #4 78/80. Cleaned, gapped, and tested all spark plug. Engine was found to be in airworthy condition.	
		 James T. Prouty 2665709 A&P/IA 19 July 2020	
		SMOH: 500.42	

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.)
		9/6/2020		CHANGED ENGINE OIL. SERVICED ENGINE W/ 7QTS W100PLUS OIL & EXAMINED OLD FILTER SENT OFF OIL SAMPLE FOR ANALYSIS
				REPLACED BOTTOM 4 SPARK PLUGS W/CHAMPION REM38E
				HOBBS: 2408.35 ACTT: 5410 

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.)
12/7/2020				CHANGED ENGINE OIL. SERVICED ENGINE W/ 8 QTS W/100 PLUS. CUT & EXAMINED FILTER SENT AN OIL SAMPLE FOR ANALYSIS
			HOBBS 2454 ACTT 5455.64	<i>[Signature]</i>

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.)
09/27				→ See engine log book # 3 For misplaced stickers under like date <i>[Signature]</i>

Chris Yarbrough
3883852

Tango Charlie Aviation LLC

3093 Mitchell Drive Malden Mo 63863 (573) 281-2227

Engine N8973J
Lycoming O-360-A3A S/N: L-9116-36A
Tach: 5494.85 Date: 11/17/2021
TSMOH: 609.05 Total Time: 5494.85

This date drain oil, removed oil filter, cut filter no metal noted. Installed Champion CH48110 filter and serviced with 7qts of Phillips 20w50 oil. Completed compression check #1(76/80) #2(75/80) #3(76/80) #4(73/80). Washed engine, ground ran no leaks noted.

