



*The Standard*

# ENGINE LOG

ASA-SF-1

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.)
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wo: WO\_1104

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PF Flyers Inc · 300 Eagle Mountain Rd · Charleston, WV 25311 · 3046332601

N2648Y  
TACH: 59.5

CONT MOTOR, O-470-K

August 01, 2025

Removed cowling and drained crankcase, SOAP sample taken. Removed and cleaned oil screen, no significant contaminants noted. Re-installed screen and saftied. Refilled crankcase with 8 Quarts of Phillips 20W50 XC oil. Reinstalled cowling and test ran aircraft, leak check good. All work done IAW applicable service manuals. Return to service for work performed.

Jarrold Golice A&P/IA 3584329

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wo: WO\_1153

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PF Flyers Inc · 300 Eagle Mountain Rd · Charleston, WV 25311 · 3046332601

N2648Y  
TACH: 71.0

CONT MOTOR, O-470-K

March 03, 2026

Inspected and serviced this engine in accordance with FAR 43 Appendix D and applicable maintenance and service manuals. Compressions are as follows 1) 69/80 2) 68/80 3) 68/80 4) 74/80 5) 70/80 6) 70/80. Complied with all AD's pertinent to this model, see AD compliance. Cleaned, gapped and tested spark plugs. Drained crankcase and removed filter, re-filled crankcase with 11 quarts Aeroshell 15W50. Installed and saftied new CH48109-1 filter. Installed 6 new exhaust gaskets P/N RA628260. Installed 6 new intake gaskets P/N SA536413. Installed 10 new intake boots P/N 654439-1. Performed induction leak check, no leaks at this time. Test run, ops check, leak check ok. I certify that this engine has been inspected in accordance with annual inspection procedures and was found to be in an airworthy condition.

Terry Phillips A&P/IA 198641373

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.)
	Continental	0-470-K	SN: 51994-7-M	installed in N2648Y

DATE: 11/02/2024 TACH: 8.2 TTIS: 2473.7 SMOH: 77.7

Performed 100 hour inspection on this eng, and components, IAW Cont. 0-470 service manual & FAR 43.13 app(d). Drained oil and serviced with 12 qts Phillips 20W50 X/C. R&R Bracket Induction air filter PN: BA 8103-1. Run eng for leak check. Boroscope cyls. IAW Cont. Directive, all good. Compression check - #1 60, #2 70, #3 70, #4 65, #5 65, #6 70. AD's checked thru Biweekly 2024-21. All applical researched mandatory SB' C/W.

I certify that this eng and eng components was insp. IAW a 100 hr insp. and determined to be in an airworthy condition on this date.

Robert Harrington A&P 2219592 IA *R A Harrington*

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				03/20/2025 N2648Y S/N:31676 Engine O-470K S/N 51994-7-M TSMOH 90.6 AFTT: 5726.1
				Removed engine from mounts replaced oil seal p/n TCM534938 on starter adapter alternator drive. Replaced exhaust hardware at reassembly. Reinstalled engine and re-torqued mounts. Repaired alternator broken wires and remounted noise filter to frame. Replaced #6 cylinder rocker cover gasket p/n 655528. Replaced leaking carburetor Marvel Schebler MA4-5 p/n 10-4893-1 s/n MS1HFA04. Replaced carburetor scat tube. Replaced alternator drive belt. Adjusted prop governor to 2600 maximum RPM. Added 1 AN960 washer to oil regulator assembly to increase cruise oil pressure 10 PSI. Re-rigged engine cowl flaps. Changed oil and inspected and cleaned engine oil screen. Serviced with Phillips 20-50W oil. Ran engine and no leaks or defects found.

Mark E. White  
*Mark E. White*  
A&P 3640047

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2023	TT19		SMOH	
5/28	2465		69.0	Eng. unpickled - cleaned and Flushed.
6/4			69.0	Serviced with 11qts Phillips 20W50 X/C. ENG RUN and all systems checked IAW Serv. manual for C-0-470. All checked good. Engine approved for return to service. RA Harrington ATP 2219592 IA
8-1-23	2465		69.0	Installed continental O-470K SN 51994-7-11 on Aircraft N2648Y SN 31676 using new Barry mounts and hardware. Installed all acc., carb, mag, airbox, prop gov. etc. Installed new fabricated aluminum engine baffle with rubber. Installed new oil hoses + mufflers. Rigged engine controls. Barry ATP 346647

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2023	PT5		SMOH	
9/29	TT15 2465.5		69.5	Inspected eng IAW Cont. 0470 service manual for 100 hr. insp. Serviced with Phillips 10qts X/C 20W50. Eng. run, leak check. RTR Bracket Filter # BA 8103-1. Eng Compression chk. 1 60/90 2 66/90 3 64/90 4 60/90 5 60/90 6 64/90 Performed with Cont. tester. Bore scope cyls, all good. I certify that this eng. and components was insp. IAW with a 100 hr insp. and determined to be in an airworthy condition on this date. RA Harrington ATP 2219592
				AD's checked thru BiWeekly 2023-20/-21

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4-1-2004	SMOAH	69.0	2465.0	Engine TCM-0470K SN 51994-7-M Removed from Cessna 182A N22016 SN 51501. Work performed by JH Thomason III AHP 2587620
1-20-2007	SMOAH	69.0	2465.0	Engine TCM-0470K SN 51994-7-M converted to autofuel 87 min octane. Per STC SE 01943CH, Form 337 submitted. IAW research paperwork submitted by JH Thomason III AHP 2587620 on Jan 20 2007.

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2-5-2009	TSMOAH	69.0	2465.0	Engine TCM-040K SN 51994-7-M disassembled, inspected for condition and authenticity of logbook entry from previous aircraft dated Oct 91 stating engine overhaul information. Inspected cylinders, pistons, rings and bearings for condition and determined to be in airworthy condition. Reassembled engine with new seals. Filled engine case, pistons/cylinders, sumps etc. with Marvel Mystery oil for preservation purposes. Work performed by JH Thomason III AHP 2587620 IA

Time Brought Forward 69.0 SMOH

Engine Converted to O-470-K per SB TM 75-6

**Engine Record** General Information

Manufacturer Continental Model O-470-K

Serial 51994-7-M Type Certificate \_\_\_\_\_

This engine is currently installed in aircraft \_\_\_\_\_  
N2648Y

Minimum Octane Fuel 80/87 Oil Grade: Summer \_\_\_\_\_ Winter \_\_\_\_\_

Magneto Time 22° Point Setting \_\_\_\_\_ Firing Order \_\_\_\_\_

Spark Plug Gap \_\_\_\_\_

Manufacturer recommended overhaul at \_\_\_\_\_ hours

Log Book 