

N8538P

1964 Commanche 400

Engine Logbooks (2005-2024)



MSN: 26-119

Prepared by the worldwide aviation specialists at RidgeAir, Inc.

The Standard



ENGINE LOG

1951

DATE	RECORDING	TOTAL	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS
Broadle's Aircraft Inc , Meacham Field Loc N2, Ft Worth, TX 76100			
SUPPLEMENTAL LOG BOOK ENTRY			TT/SO 0
A/C N#	8538P	S/N 26-119	TT UNKNOWN
Description of work performed	ENGINE		TACH 1209.9
			HOBBS 42909
REMOVED ENGINE DUE TO ROD FAILURE ON # 8 CYLINDER TEAR DOWN OF ENGINE REVEALED CRANKCASE-CRANKSHAFT, CAM #8 AND # 3 CYLINDERS BEYOND REPAIR FOUND REPAIRABLE ENGINE CORE SENT ENGINE CASE OUT TO BE INSPECTED AND OR REPAIRED CERTIFIED ALL STEEL PARTS SENT OUT FOR INSPECTION AND OR REPAIRED-CERTIFY CRANKSHAFT MAINS AND CRANK PINS GROUND AND POLISHED TO .006 UNDERSIZE COUNTER WEIGHTS OVERHAULED AND INSTALLED BY AIRCRAFT ENGINE AND ACCESSORY CO INC 4 EACH RODS WERE REPLACED WITH SERVICEABLE ROD ASSEMBLIES P/N LW 10646 CAM REPLACED WITH SERVICEABLE CAM P/N LW 13879 TAPPET BODIES WERE RECONDITIONED P/N 72877 SERVICEABLE CRANKSHAFT GEAR INSTALLED ON CRANKSHAFT S/B 475C ACCOMPLISHED ON CRANKSHAFT GEAR BOLT STD 2246 AND LOCK PLATE INSTALLED AND TORQUE TO 204 IN LBS AND SAFTIED NEW ROD BOLTS P/N 75050 AND NUTS P/N LW 12186 INSTALLED ON ROD ASSEMBLIES REPLACED 2 EA SERVICEABLE IDLER GEARS P/N LW 11489 (SEE WORK ORDERS) INSTALLED NEW OIL PRESSURE BALL AND SPRING INSTALLED NEW OIL PUMP GLAR KIT 05K23463 AND OIL PUMP HOUSING P/N LW14389 REPLACED 4 EA ROCKER ARM P/N 71266 INSTALLED 1 EA PLUS 10 CYLINDERS P/N ST6011 STUD ASSEMBLY AFTER VALVE WORK REPLACED ALL EXHAUST VALVES P/N LW16740 LAPPED AND INSTALLED IN CYLINDERS INTAKE VALVES NEW PISTONS P/N 10207 AND PINS AND PLUGS			
CONTINUED ON NEXT PAGE			

DATE	RECORDING	TOTAL	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS
CONTINUED FROM PREVIOUS PAGE			
P/N LW14078 AND RING SETS INSTALLED CRANKCASE MATING SURFACES CUT AND RESIZED BORES TO FACTORY LIMITS BY DIVCO INC (SEE 8130) INSTALLED 4 EA NEW LIFTER SOCKETS P/N 15B21319 INSTALLED 8 EA NEW SPARK PLUGS P/N RHM 381 ALL OIL LINES WERE FLUSHED 2 EA OIL COOLERS OVERHAULED (SEE 8130) PROP AND GOVERNOR FLUSHED OUT (SEE 8130'S) ASSEMBLED ENGINE USING 10-720 OVERHAULED MANUAL FOR ALL FITS AND CLEARANCES AND TORQUE LIMITS INSTALLED ENGINE ON MOUNT ASSEMBLY USING NEW BOLTS INSTALLED MAGS AFTER CHECKING POINTS AND INTERNAL TIMING INSTALLED VACUUM PUMP ALTERNATOR STARTER PROP GOVERNOR FUEL PUMP IGN LEADS EXHAUST SYSTEM REPAIRED AIR DELIVERY DUCTS TO TURBO'S PRE OILED TURBO'S CHECKED ENGINE CONTROLS FOR HITTING STOPS CHECKED TURBO CONTROLS ADDED AERO SHELL 100 MNERAL OIL INSTALLED PROP PRE OILED ENGINE REPAIRED ENGINE BAFFLES WHERE NEEDED GROUND RUN ENGINE ADJUSTED MIXTURE AND IDLE SPEED REPLACED SURGE VALVE P/N 492103 ENGINE C/W AD91-08 07 C1 FUEL PUMP "T" FITTING C/W AD 2002 26-01 FUEL INJECTION LINE AND CLAMPS C/W AD 2003 14-03 FUEL PUMP TORQUE CHECK (DID NOT MOVE) C/W AD2004-10-14 CRANKSHAFT GEAR (S/B 475C) INSTALLED NEW ALTERNATOR BELT REPAIRED PROP GOVERNOR CABLE BRACKET REPAIRED 4 EA CYLINDER OIL DRAIN LINES LABED 2 EA CYLINDER DRAIN LINES REPLACED THROTTLE CABLE ROD END REPAIRED ALTERNATOR GROUND CABLE REPAIRED FUEL PRESSURE LINE TO FUEL SPIDER REPAIRED LEFT AND RIGHT FUEL INJECTOR AIR RAIL LINES ENGINE READY FOR TEST FLIGHT			
Signature <u>Bert S. S. S.</u>			
Repair Station #WF1R582K			
Date 3/1/2005			
RO# 179880			

DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
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Broadie's Aircraft Inc, Meacham Field, Loc N2, Ft. Worth, TX 76106

SUPPLEMENTAL LOG BOOK ENTRY

A/C N#	N8538P	S/N:	26-119	TACH	1212.3
	Lyc IO-720-A1B		L273-54	TTSO:	2.4
Description of work performed	Engine				

Performed annual inspection per Piper PA24-400 inspection checklist. Changed engine oil servicing with new Aeroshell 100 and new filter CH48109-1. Cut open and inspected old element and found no abnormal debris. Compression check 1) 76, 2) 68, 3) 76, 4) 76, 5) 78, 6) 64, 7) 76, 8) 62 all over 80lbs. Removed #6 rocker cover, cleaned gasket surface and installed new gasket (P/N 67193). Installed all new exhaust gaskets (P/N 75118). Lubricated throttle control cable. Removed right exhaust and sent out for repair around heater shroud, and reinstalled upon receipt. Tightened alternator belt to proper tension. Installed new air filters (P/N RJ0633-2). Right turbo leaking oil, tightened elbow fitting. Resafetied right turbo heat shield with 041 safety wire. Installed new turbo to exhaust gaskets on both sides with

cont'd next page

DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
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(P/N RJ0115) Complied with AD 2003-14-03 by inspection, due in 100hrs. Complied with AD2008-14-07 by inspection, due in 100hrs. Run up check was good with no leaks noted. All work was done IAW Piper and Lycoming Maintenance manuals and the engine is approved for return to service in regards to the work performed.

Signature



Repair Station #WF1R582K

Date 2/20/2009

RO#

181209

BROADIE'S AIRCRAFT, INC.

Meacham Field, Loc. 2N

200 Commander Rd, Fort Worth, TX 76106

FAA Repair Station #WF1R582K

Airframe Class 3

Powerplant Class 1

I certify that this Aircraft/Engine has been in-

spected in accordance with a annual

inspection and was determined to be in Airworthy Condition. Details of inspection are on file under

W.O. No. 181209 Date 2/20/09 Total

Time 2.4

Signed



DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
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Broadie's Aircraft Inc., Meacham Field, Loc N2, Ft. Worth, TX 76106

SUPPLEMENTAL LOG BOOK ENTRY

A/C N# N8538P

S/N: 26-119

TACH: 1212.9

Description of work performed: Engine

Removed vacuum pump and installed new vacuum pump (P/N 215CC, S/N 15253). Operational check was good of engine. All work was done IAW Piper Maintenance Manual and the engine is approved for return to service in regards to the work performed.

Signature:



Repair Station #WF1R582K

Date: 3/12/2009

RO# 181261

DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
05-07-2019				<p>Lycoming IO-720-A1B Serial No. L-273-54 Hobbs Time: 1253.80 Time Since Overhaul : 43.9 Performed Annual Inspection on Engine in accordance with Lycoming Service Manual and Johnston Aircraft Service 100 Hour/Annual checklists. Replaced engine oil and filter, serviced engine with 12 quarts Aeroshell 100W Plus oil. Compressions are as follows: Cyl. No.1 79/80 Cyl. No.2 78/80 Cyl. No.3 79/80 Cyl. No. 4 79/80 Cyl. No.5 79/80 Cyl. No.6 79/80 Cyl. No. 9 79/80 Cyl. No. 8 79/80 Engine is in compliance with all applicable AD's through 2017-16-11, and in Airworthy condition at this time. For more information see J.A.S. Work Orders A9579 and A9580.</p>
<p>I CERTIFY THAT THIS <u>ENGINE</u> HAS BEEN INSPECTED IN ACCORDANCE WITH <u>100HR/ANNUAL</u> INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.</p>				
<p>DATED <u>5-7-2019</u> TOTAL TIME HRS <u>50H 43.9</u></p>				
<p>SIGNED <u>[Signature]</u></p>				
<p>JOHNSTON AIRCRAFT SERVICE, INC REPAIR STATION NO BG 4R075M TULARE MUNICIPAL AIRPORT TULARE, CALIFORNIA</p>				

DATE

19__

TOTAL
TIME IN
SERVICESOUND MAINTENANCEN8538P**11/27/2020 TACH 1329.4 SMOH 119.5**

PERFORMED 100HR/ANNUAL INSPECTION PER MANUFACTURE CHECKLIST AND FAR 43. COMPRESSION CHECK. #1)77/80 #2)76/80 #3)78/80 #4)74/80 #5)77/80 #6)78/80 #7)79/80 #8)73/80 CLEAN GAP AND ROTATE SPARKPLUGS, CHECK MAGNETO TO ENGINE TIMING, REMOVED AND REPLACED LEFT TURBO CHARGER WITH OVERHAULED UNIT RJ0326-1 SERIAL 0077937. NO OIL CHANGED AT THIS TIME. REMOVED AND REPLACED #8CYLINDER INTAKE VALVE WITH NEW LW12949, REPLACED INJECTOR WITH NEW, REINSTALLED CYLINDER ON ENGINE AND TORQUED PER OVERHAUL MANUAL. REPLACED #2,4,5 INDUCTION TUBE GASKETS WITH NEW. REPLACED 2 PAD SPARK PLUGS WITH NEW UREM38S. TIGHTENED CAPACITOR SPADE CONNECTOR INTERNALLY ON RIGHT MAGNETO AND REINSTALLED AND TIMED MAGNETO PER ENGINE TDCS. RUN-UP ENGINE.

I CERTIFY THAT THE INSPECTION AND MAINTENANCE OF THIS AIRCRAFT HAS BEEN PERFORMED IN ACCORDANCE WITH MANUFACTURE CHECKLIST AND FAR 43. AND WAS FOUND TO BE IN AIRWORTHY CONDITION RETURN TO SERVICE

DEAN RILEY AP26452801A 

ING AGENCY.

19—

**TOTAL
TIME IN
SERVICE**

**REFERENCE OF MAJOR REPAIRS AND MAJOR ALTERATIONS TO
FAA FORM ACA-337 BY DATE, OR TO THE WORK ORDER BY NUMBER AND THE APPROVING AGENCY.**

Piper PA24-400 S/N: 26-119 N8538P

04/27/21 TACH: 1359.7

Removed fuel injector servo, drilled, installed and safetied throttle stop, P/N 2525318 and adjusted idle mixture and rpm IAW service manual. Installed new 2 ea. inlet turbo couplings, P/N RJ0193, and 1 ea. turbo inlet gasket, P/N RJ0115 on left hand side. Ops checked. *John Caspe 3222966980*



Sandoval Aero Services

N8538P Lycoming IO-720A1B Tach:1331.4 TTSMOH:121.5

DATE:3/28/22

Performed Annual inspection IAW with Lycoming MM and AC 43.13B. Customer declined oil and filter change. Performed mag timing, compression check as follows 1: 75/80 2:74/80 3: 77/80 4:75/80 5:76/80 6:77/80 7:74/80 8:72/80 .Repaired baffling as required. Cleaned rotated spark plugs, removed and cleaned fuel injectors, ground run and operation checks were satisfactory. Complied with AD 03-14-03 Rotary pump. I certify that this aircraft was inspected IAW with an annual inspection and found to be in an airworthy condition. No defects noted at this time.


A&P 3473909 Joshua Sandoval

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9/16/2024 N8538P tach. reads 1364.90 Eng. TTSMOH 155.0

Completed Annual inspection this date using piper inspection form as guide. Took compression check as follows. #1 74/80 #2 72/80 #3 76/80 #4 74/80 #5 0/80 #6 74/80 #7 74/80 #8 72/80. Removed #5 cyl. Due to low compression and sent for repair, reinstalled cyl. After repair at Western Skyways Montrose Colorado with new piston rings and necessary gaskets, inspected / lubed engine controls as necessary cleaned and checked all spark plugs, removed both r/h and l/h magnetos and sent to Aircraft Magneto Service, Stevensville, MT for overhaul. Reinstalled both magnetos and timed to engine per Lycoming service instructions. Installed overhauled Fuel servo RSA-10AD1 p/n 2524175-11 from Precision Airmotive LLC, Arlington, Washington. Inspected intake and exhaust systems and no defects noted. Engine oil and filter not changed at this time and date. Engine compartment inspected in general. Engine ground runs completed, and no discrepancies noted.

I certify that this Engine has been inspected in Accordance with an Annual inspection and was found to be in Airworthy condition.

Tony CdeBaca A&P 585148029 IA 

DATE

19__

TOTAL
TIME IN
SERVICEMANUFACTURERS MANDATORY SERVICE BULLETINS
CHRONOLOGICAL LISTING OF COMPLIANCE AND METHOD OF COMPLIANCE.

9/22/2024 TACH. Reads 1365.0 Eng. TTS MOH 155.5
Removed Eng. Driven fuel pump & Installed Overhauled
P/N RG17980d S/N B-1595, Engine 9 Round RAN &
NO DISCREPANCIES NOTED. NOTE: Ad on Fuel pump ~~not~~
ReTorque no longer applies on fuel pump.
Tiger Base A#P 585148029 IA.

SERVICEABLE

Mfgr.

Name RAJAY

Part No. RJ0326-1

Part

Name TURBOCHARGER

Serial TLR6667

The aircraft component identified above was completely overhauled in accordance with the manufacturer's specifications and with the current Regulations of the Federal Aviation Administration and is approved for return to service.

Pertinent details of the repair are on file at this repair station under

Work Order No. 6667

Date 12-19-90

Signed

Michael W Rogers

(Signature of Authorized Individual)

KEL PAK INDUSTRIES, INC.

1545 East Acequia - Visalia, CA 93291

FAA Approved Repair Station No. 404-55

Form 1006

Form 1006

4364.59
Dec 20 90
K Side

