

# N5769X

## 1962 Cessna 320

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# RH Engine

# Logbook

## SMOH

## 2012 - 2023

**Aircraft S/N: 320-0069**



**RidgeAire**  
WORLDWIDE  
aviation specialists

*Prepared by the worldwide aviation specialists at RidgeAire, Inc.*



R/H

*The Standard*



**ENGINE LOG**



ENGINE RECORD — GENERAL INFORMATION

MANUFACTURER CONTINENTAL MODEL TS10470-B, Spec 2

SERIAL 99479-2-R TYPE CERTIFICATE \_\_\_\_\_

THIS ENGINE IS CURRENTLY INSTALLED IN AIRCRAFT [REDACTED]  
C-320 N5769X Right Engine

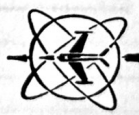
MINIMUM OCTANE FUEL \_\_\_\_\_ OIL GRADE SUMMER \_\_\_\_\_ WINTER \_\_\_\_\_

MAGNETO TIME \_\_\_\_\_ POINT SETTING \_\_\_\_\_ FIRING ORDER \_\_\_\_\_

SPARK PLUG GAP \_\_\_\_\_

MFG. RECOMMENDED OVERHAUL AT \_\_\_\_\_ HOURS.

*The Standard*



**ENGINE LOG**



DATE	RECORDING	TOTAL	DESCRIPTION OF INSPECTIONS TESTS SERVICES AND REPAIRS	R OF RIES.)
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August 28, 2012 Hobbs reads 1469.5 TSMOH 0.0 Total time 3980.4  
N5769X R/H Engine TCM TSIO-470-B sn# 99479-2-R

This engine overhauled IAW TCM Overhaul Manual no. X-30033. Engine disassembled due to propeller strike for inspection IAW TCM SB 96-11B. Crankshaft reconditioned, new counterweight bushings installed, TCM MSB 96-10A complied with, see Aircraft Specialties Services, Inc. wo# 210577. Counterweights reconditioned see Aircraft Specialties Services, Inc. wo# 210577. Camshaft and lifters reconditioned, see Aircraft Specialties Services, Inc. wo# 210577. Connecting rods and rocker arms reconditioned, see Aircraft Specialties Services, Inc. wo# 210577. All remaining steel parts magnafluxed, see Aircraft Specialties Services, Inc. wo# 210577. Crankcase was overhauled by Divico Inc. see wo# 100636. Engine reassembled IAW TCM Overhaul manual no. X- 30033. using all new counterweight pins, plates and snap rings. Installed all new gear bolts, rod bearings, main bearings rod bolts and nuts. Installed all new locktabs, gaskets, packings and seals. Installed 6 each new TCM 658184A3 cylinder assemblies (manufacture dates March and April 2012 see TCM form 8130). Overhauled starter adapter with all new bearings, overhauled starter shaft and new 539800M030 spring. Installed overhauled starter pn# 646275-1 sn# H-M060450. Installed new Aero-Classics engine oil cooler pn# 8000531 sn# 1371064. Fuel system not overhauled at this time. Cleaned fuel injectors. Disassembled magnetos and overhauled IAW TCM ignition systems publication no. X42002-3. Magneto 500 hour inspection completed. Installed new distributor gears kits, greased bearings and replaced all hardware with new. Reinstalled magnetos and timed to engine. Installed all new RHB 32E spark plugs. Installed overhauled G455 vacuum pump, sn# 49421. Installed propeller governor after overhaul, see R&D Propeller Service wo# 13422. Repaired all engine baffling as required and reinstalled. Reinstalled alternator as removed. Installed this engine in R/H position of Cessna 320 N5769X. Installed new engine mounts, bolts and locktabs. Reinstalled propeller after overhaul, see New Mexico Aircraft Propeller wo# 4016. Installed new oil filter CH48104-1. Pre-oiled engine and serviced with 12 quarts of Aeroshell 50 wt. mineral oil. Ground run-up for leak and operational check good.

Steven R. Johnson A&P 585568445  
Bode Aviation Inc. CRS J7BR555Y wo# 6374



27 NOVEMBER 2012 HOBBS: 1495.7 TSO 26.2  
N5769X R/H ENGINE TCM TSIO-470-B S/N 99479-2-R

DRAINED ENGINE OIL, REMOVED AND REPLACED OIL FILTER. SERVICED WITH 11 QTS. OF AEROSHELL 80 NON-DETERGENT. GROUND RUN-UP FOR LEAK AND OPERATIONAL CHECK GOOD.

STEVEN R. JOHNSON A&P 585568445






DATE JUNE 5, 2013 HOBBS: 1519.4  
N5769X R/H ENGINE TCM TSIO-470-B S/N 99479-2-R

19 DRAINED ENGINE OIL, REMOVED AND REPLACED OIL FILTER. SERVICED WITH 11 QTS. OF AEROSHELL 100W.  
COMPLIED WITH AD 2000-01-16, IAW PARA. (B) VISUAL INSPECTION, NEXT DUE BY HOBBS:1569.4 OR 6-2014.  
GROUND RUN-UP FOR LEAK AND OPERATIONAL CHECK GOOD.

TIMOTHY BOURGOINE A&P 3178231

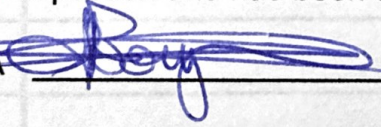


October 19, 2013 Hobbs: 1566.9 TSMOH: 97.4 Total 4077.8  
N5769X R/H engine TCM TSIO-470-b s/n 99479-2-R

Bode Aviation INC  
CRS J7BR555Y

100 hour/Annual inspection completed in accordance with far 43 appendix d, using Cessna model 320 inspection checklist as a guide. Compressions as follows: 1-72/80, 2-68/80, 3-72/80, 4-65/80, 5-70/80, 6-64/80. Inspected magneto timing. Cleaned, inspected and re-gapped spark plugs. Cleaned fuel screens. Cleaned induction air filter. Inspected all plumbing and wiring for condition, security, and clearance. AD 2000-01-16, status is as follows: C/W para. (b) visual inspection, next due by hobbs: 1616.9 or 10-2014, whichever occurs later; C/W para. (c) tailpipe inspection, next due by 10-2014; para. (d) engine beam & firewall inspection, next due by hobbs: 1969.5; c/w para. (e) exhaust pressure check, next due by 10/2014; para. (f) segmented clamps, next due hobbs: 1918.6; para. (g) exhaust system OH L/eng. Due by AFTT: 6480.5, R/eng. Due by AFTT: 6212.0. Ground run-up for leak and operational check. I certify that this engine has been inspected IAW with an Annual Inspection and has been determined airworthy for return to service.

Timothy Bourgoine A&P 3178231 IA



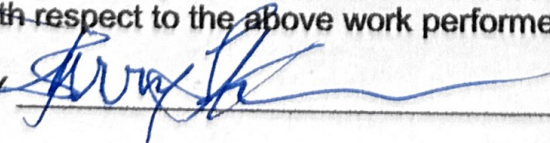
CRS J7BR555Y WO 6893

July 25, 2014 Hobbs: 1604.1 TSMOH: 134.6 Total 4115.0  
N5769X R/H engine TCM TSIO-470-b s/n 99479-2-R

Bode Aviation INC  
CRS J7BR555Y

Drained oil replaced oil filter with new and filled with 12 quarts Aeroshell w100. AD 2000-01-16 status is as follows: C/W para. (b) visual inspection, next due by Hobbs: 1704.1 or 7/25/15, whichever occurs later; para. (c) tailpipe inspection, next due by 10-2014; para. (d) engine beam & firewall inspection, next due by hobbs: 1969.5; C/W para. (e) exhaust pressure check, next due by 10/2014; para. (f) segmented clamps, next due hobbs: 1918.6; para. (g) exhaust system OH L/eng. Due by AFTT: 6480.5, R/eng. Due by AFTT: 6212.0. Ground run-up for leak and operational check. This aircraft is approved for return to service with respect to the above work performed.

Barry L. Kromer CRS J7BR555Y



WO 7133







DATE	RECORDING TACH	TODAYS	TOTAL TIME IN	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS
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ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF

19

AUGUST 28, 2012 HOBBS: 1469.5 TSMOH: 0.0 TOTAL 3980.4  
 N5769X R/H ENGINE TCM TSIO-470-B S/N 99479-2-R

100 HOUR/ANNUAL INSPECTION COMPLETED IN ACCORDANCE WITH FAR 43 APPENDIX D, USING CESSNA MODEL 320 INSPECTION CHECKLIST AS A GUIDE. CLEANED FUEL SCREENS. CLEANED INDUCTION AIR FILTER. INSPECTED ALL PLUMBING AND WIRING FOR CONDITION, SECURITY, AND CLEARANCE. **AD 2000-01-16**, STATUS IS AS FOLLOWS: C/W PARA. (B) VISUAL INSPECTION, NEXT DUE BY HOBBS: 1519.2 OR 9-28-2012, WHICHEVER OCCURS LATER; C/W PARA. (C) TAILPIPE INSPECTION, NEXT DUE BY 8-2013; C/W PARA. (D) ENGINE BEAM & FIREWALL INSPECTION, NEXT DUE BY HOBBS: 1969.5 OR AFTT 4892.0; C/W PARA. (E) EXHAUST PRESSURE CHECK, NEXT DUE BY 8-2013; PARA. (F) SEGMENTED CLAMPS, NEXT DUE HOBBS: 1918.6; PARA. (G) EXHAUST SYSTEM OVERHAUL DUE BY AFTT: 6212.0. **AD 2009-19-07 C2** TO PREVENT LOSS OF ENGINE POWER N/A BY MANUFACTURE DATE. **AD 2010-11-04** TO PREVENT EXCESSIVE HYDRAULIC LIFTER WEAR N/A BY OVERHAUL DATE. **AD 2012-03-06 C** TO PREVENT AN IN FLIGHT ENGINE SHUTDOWN, N/A NOT EQUIPPED. GROUND RUN-UP FOR LEAK AND OPERATIONAL CHECK GOOD. I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IAW WITH AN **ANNUAL INSPECTION** AND HAS BEEN DETERMINED AIRWORTHY FOR RETURN TO SERVICE.

STEVEN JOHNSON CRS#J7BR555Y WO# 6374

Nov 01, 2014 Hobbs: 1629.7 TSMOH: 160.2 Total 4140.6  
 N5769X R/H engine TCM TSIO-470-b s/n 99479-2-R

Bode Aviation INC  
 CRS J7BR555Y

100 hour/Annual inspection completed in accordance with far 43 appendix d, using Cessna model 320 inspection checklist as a guide. Compressions as follows: 1-60/80, 2-74/80, 3-66/80, 4-72/80, 5-70/80, 6-72/80. Changed oil and oil filter with Aeroshell 100w, and CH48104-1 filter. Inspected magneto timing. Cleaned, inspected and re-gapped spark plugs. Cleaned fuel screens. Cleaned induction air filter. Inspected all plumbing and wiring for condition, security, and clearance. **AD 2000-01-16**, status is as follows: C/W para. (b) visual inspection, next due by hobbs: 1676.9 or 10-2015, whichever occurs later; C/W para. (c) tailpipe inspection, next due by 10-2015; para. (d) engine beam & firewall inspection, next due by hobbs: 2019.5; c/w para. (e) exhaust pressure check, next due by 10/2015; para. (f) segmented clamps, next due hobbs: 1918.6; para. (g) exhaust system OH L/eng. Due by AFTT: 6480.5, R/eng. Due by AFTT: 6212.0. Ground run-up for leak and operational check. I certify that this engine has been inspected IAW with an **Annual Inspection** and has been determined to be in an airworthy condition and return to service with regard to the above work performed.

Stuart Miles A&P 585393595 IA

CRS J7BR555Y WO 7212



D Bode Aviation, Inc. 2502 Clark Carr Loop SE Albuquerque, NM 87106  
25 June 2015 N5769X Cessna 320 S/N: 320-0069 Hobbs 1651.4  
1: Right engine TCM TSIO-470-B S/N 99479-2-R



DF  
5.)

Cleaned all fuel injectors. Replaced injector lines on cylinders #2 and #6 part numbers 628153 and 628154.  
Ground run-up for leak and operational check good.

I certify that this airframe is airworthy for return to service with regard to the above work performed.

Steve Johnson

A&P 3694031

WO# 7413

Nov 20, 2015 Hobbs: 1701.2 TSMOH: 231.7 Total 4212.1  
N5769X R/H engine TCM TSIO-470-b s/n 99479-2-R

Bode Aviation INC  
CRS J7BR555Y

100 hour/Annual inspection completed in accordance with far 43 appendix d, using Cessna model 320 inspection checklist as a guide. Compressions as follows: 1-55/80, 2-70/80, 3-65/80, 4-60/80, 5-62/80, 6-70/80. Changed oil and oil filter with Aeroshell 100w, and CH48104-1 filter. Inspected magneto timing. Cleaned, inspected and re-gapped spark plugs. Cleaned fuel screens. Cleaned induction air filter. Inspected all plumbing and wiring for condition, security, and clearance. **AD 2000-01-16**, status is as follows: C/W para. (b) visual inspection, next due by Hobbs: 1751.2 or 11-2016, whichever occurs later; C/W para. (c) tailpipe inspection, next due by 11-2016; para. (d) engine beam & firewall inspection, next due by hobbs: 1969.5; C/W para. (e) exhaust pressure check, next due by 11/2016; para. (f) segmented clamps, next due hobbs: 1918.6; para. (g) exhaust system OH L/eng. Due by AFTT: 6480.5, R/eng. Due by AFTT: 6212.0. Ground run-up for leak and operational check. I certify that this engine has been inspected IAW with an **Annual** inspection and has been determined to be in an airworthy condition and return to service with respect to the above work performed.

Stuart Miles A&P 585393595 IA

WO 7558

May 6, 2017 HOBBS: 1786.3 ACTT: 4710.8 TSMOH: 318.8 ETT: 4299.2  
N5769X CESSNA 320 SER# 320-0069 ENG. #2 TCM TSIO-470-B S/N 99479-2-R

BODE AVIATION INC  
DOUBLE EAGLE II AIRPORT

INSTALLED GAMI INJECTOR KIT ON THIS ENGINE IAW STC SE09289SC. PERFORMED GROUND RUN FOR OPS AND LEAK CHECKS. THIS AIRCRAFT IS APPROVED FOR RETURN TO SERVICE WITH RESPECT TO THE ABOVE WORK PERFORMED.

STUART MILES A&P 585393595

WO# 7962



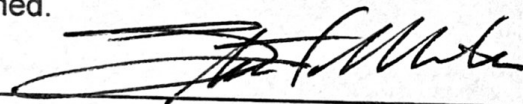
October 04, 2019 Hobbs: 1811.3 TSMOH: 341.8 Total 4322.2  
N5769X R/H engine TCM TSIO-470-b s/n 99479-2-R

Bode Aviation INC  
CRS J7BR555Y

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ES.)

Annual inspection completed in accordance with far 43 appendix d, using Cessna model 320 inspection checklist as a guide. Compressions as follows: 1-60/80, 2-74/80, 3-66/80, 4-72/80, 5-70/80, 6-72/80. Changed oil and oil filter with Aeroshell 100w, and CH48104-1 filter. Inspected magneto timing. Cleaned, inspected and re-gapped spark plugs. Cleaned fuel screens. Cleaned induction air filter. Inspected all plumbing and wiring for condition, security, and clearance. **AD 81-09-09** Stewart Warner heater pressure decay test - next due 1911.3. **C/W AD 72-14- 08 R1** flexible hose assy. inspection no defects noted, next due Hobbs: 1911.3. **AD 2000-01-16** status is as follows: **C/W** para. (b) visual inspection, next due by Hobbs: 1911.3 or 10-2020, whichever occurs later; **C/W** para. (c) tailpipe inspection, next due by 10-2020; para. (d) engine beam & firewall inspection, next due by hobbs: 1969.5; **C/W** para. (e) exhaust pressure check, next due by 10/2020; para. (f) segmented clamps, next due hobbs: 1918.6; para. (g) exhaust system OH L/ENG. due by AFTT: 6480.5, R/ENG. Due by AFTT: 6212.0. Ground run-up for leak and operational check. I certify that this engine has been inspected IAW with an **Annual** Inspection and has been determined to be in an airworthy condition and return to service with regard to the above work performed.

Stuart Miles A&P 585393595 IA



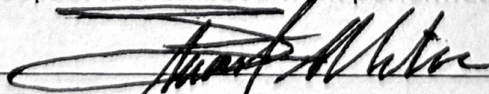
WO 8286

November 22, 2021 Hobbs: 1811.3 TSMOH: 341.8 Total 4322.2  
N5769X R/H engine TCM TSIO-470-b s/n 99479-2-R

Bode Aviation INC  
KAEG

Annual inspection completed in accordance with far 43 appendix D inspection checklist as a guide. Compressions as follows: 1-71/80, 2-64/80, 3-75/80, 4-65/80, 5-71/80, 6-60/80. Changed oil and oil filter with Aeroshell 100w, and CH48104-1 filter. Inspected magneto timing. Cleaned, inspected and re-gapped spark plugs. Cleaned fuel screens. Cleaned induction air filter. Inspected all plumbing and wiring for condition, security, and clearance. **AD 2017-06-03** Stewart Warner heater pressure decay test - next due 1911.3. **C/W AD 72-14- 08 R1** flexible hose assy. inspection no defects noted, next due Hobbs: 1911.3. **AD 2000-01-16** status is as follows: **C/W** para. (b) visual inspection, next due by Hobbs: 1911.3 or 11-2022, whichever occurs later; **C/W** para. (c) tailpipe inspection, next due by 11-2022; para. (d) engine beam & firewall inspection, next due by Hobbs: 1969.5; **C/W** para. (e) exhaust pressure check, next due by 11/2022; para. (f) segmented clamps, next due Hobbs: 1918.6; para. (g) exhaust system OH L/ENG. due by AFTT: 6480.5, R/ENG. Due by AFTT: 6212.0. Performed ground run-up for leak and operational checks. This engine has been inspected IAW with an **Annual** Inspection and has been determined to be in an airworthy condition and is approved for return to service with respect to the above work performed.

Stuart Miles A&P 585393595 IA



WO 9325







## MEMORANDA

84-26-02

File record of ADS & Compliance thru ~~78-07-07~~ in #2 aircraft log.

80-10-1 Dont apply

83-17-06 " " "

86-19-11

86-26-04 Dont apply

87-20-04 Sump fuel drain complied with 2-5-88 Mem-Selmer



