

## ENGINE MAINTENANCE RECORDS

Aircraft Registration NS02JJ

Engine Position Right

Engine Serial No. 514534



## ENGINE MAINTENANCE RECORDS

Log No. \_\_1\_\_\_

Aircraft Registration NoNSO2丁丁
-0 no
Engine Manufacturer
ModelTSI0-520-NB
Serial No. 514 534
Date installed on aircraft 11/25/09
Time Between Overhauls (TBO) 1600 Hours
If used on multi-engine aircraft:
Right □ Left
1

DATE TOTAL TACH OR TIME IN SINCE OVERHAUL TIME SERVICE OVERHAUL TIME
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## DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK

Date	Total	Total	Tach or
	Time	Time	Recording
	In	Since	Meter
	Service	Overhaul	Time
9-11-09	4583.0	0.0	



RAM Aircraft, Limited Partnership • Waco Regional Airport

## TCM TSIO-520-NB Series VI Right Engine S/N 514534

Above referenced engine overhauled to new parts limits per FAR 43.2(a)(1)(2) to conform w/TCM SM X-30574A. Applicable AD's and Service Bulletins C/W at this time. All gears cleaned, polished when required, inspected, magnafluxed, and no cracks found. Finish and dimensional limits within RAM Gear Inspection Specification No. 1818, Rev. J dated 2/19/08. Above referenced engine modified to TSIO-520-NB 335 HP per STC SE4327SW-D Rev.4. Installed new RAM camshaft P/N 1058-1A, S/N I08037 per STC SE4327SW-D. AD 97-26-17 C/W per installation of overhauled VAR crankshaft P/N 649898, S/N K108904N per TCM CSB96-8. C/W ultrasonic inspection per MSB96-10A, due at next overhaul or when crankshaft removed. AD 99-19-01 N/A per crankshaft date of manufacture I/AW TCM MSB99-3C. AD 2000-23-21 N/A to crankshaft serial number/date of manufacture I/AW TCM Mandatory Service Bulletin MSB00-5D. Engine assembled with overhauled TCM heavy style crankcase P/N 654128-1, S/N J019015RPL. Installed new ECI Titan Nickel cylinders. Cylinder hold-down nuts replaced and torqued per Overhaul Manual Supplement. Installed new RAM FAA/PMA oil cooler P/N 2600-1, S/N 1753049, C/W AD 89-24-01 R1 per installation of starter adapter P/N 642085A4 with current scavenge pump gears. Installed new RAM/FAA/PMA fuel nozzles P/N 2562-14D. TCM Service Bulletin SB06-1A N/A per installation of RAM fuel nozzles. AD 86-13-04 R3 and AD 93-10-02 (MSB93-12) N/A per cylinders installed. MSB02-9, MSB06-2, Rev. 2 (ECI Cylinders) and AD 2004-08-10, MSB04-1, Rev. 2 (ECI cylinders) N/A per date of manufacturer. Engine accessories exchanged for overhauled or new units with exception of the vacuum pump and tach generator which were not installed per this work order. New Slick pressurized magnetos P/N 6320 installed per STC SE4651SW-D and pressurized. Service Bulletin SB3-08A N/A to magneto serial numbers installed. MSB94-8C on magneto timing procedure C/W per timing to STC degree requirements with TDC locator and protractor with pointer. Installed RAM/FAA/PMA rocker arms P/N 1842-3 and 1842-4. AD 98-01-08 N/A per installation of RAM/FAA/PMA rocker arms. Installed RAM FAA-PMA oil cooler baffle P/N 1253-1. Installed RAM-FAA-PMA rocker box cover gaskets P/N 1387-1. C/W AD 78-06-01 per installation of intake tube P/N 642590. Category 1 thru 3 TCM Service Bulletin Compliance Listing in RAM Manual. Above referenced engine was made eligible for 1600 hr. TBO per TCM SIL98-9 Rev. A, Note 2. Aluminum alloy engine parts were coated per RAM Specification No. 1142. Installed RAM/FAA/PMA spring loaded induction clamps P/N 1170-2. Engine ground run on test stand per RAM specifications for 4 hours. Engine run-in with Phillips 20W-50 Type M mineral oil. See RAM Recommended Oil Grade Maintenance Tip MT-1 for recommended oils. Engine approved for return to service for the work performed. Engine preserved per Service Bulletin SIL99-1 temp. storage up to 90 days. Pertinent details on file under Project No 4835.

RAM Aircraft, Limited Partnership, P.O. Box 5219, Waco, Texas 76708 CRS VA1R551K

TCM/RAM, TSIO-520-NB, S/N: 514534, Hobbs: 0.0 TT: 4583.0 SMOH: 0.0 Date:11/25/09

Installed TSiO-520-NB, S/N: 514534, TIS: 4583.0, SMOH: 0.0 on right side of aircraft N502JJ, Cessna, 414, 414-0061.

Installed new Hartzell propeller (P/N: PHC-C3YF-2UF, S/N: EB7059B) in accordance with RAM STC SA09971SC-D, TIS: 0.0, SMOH: 0.0

Complied with AD 2000-01-06, "Exhaust system inspection / Overhaul" sections B,C,D,E,F, and G. Exhaust overhauled by Dawley Inc.

This engine is returned to service.

X

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Page No
TCM/RAM TSIO 520 ND COL SIASSA WALL AND THE ASSAULT OF THE ASSAULT
> Drained oil and serviced with 10 quarts Phillips 20x-50 XC.
> Pulled oil sample and shipped to Aviation Oil Analysis for processing. > Complied with AD 2000-01-06 "Exhaust system inspection" section B no defects noted
This engine is returned to service.  X  Justin C. Baker IA543081705
N502JJ, Hobbs: 68.5, TTE: 4651.5, TSMOH: 68.5 09/16/10  Complied with an annual inspection on right engine.
> Complied with AD 2000-01-16, "Exhaust inspection" parts (c) and (d).  I certify this Engine has been inspected in accordance with an annual inspection and has been found to be  I ustin C. Baker IA 543081705
Justin C. Baker IA543081705
N502JJ BLUE MOUNTAIN AIRCRAFT 11/25/2011 (541) 663-6139
RIGHT ENGINE S/N: 514534  TACH: N/A HOBBS: 132.4 TTE: 4715.4 SMOH: 132.4 ———
TACH: N/A HOBBS: 132.4 TTE: 4715.4 SMOH: 132.4  > Complied with an Annual inspection.
> Changed oil and serviced with 12 quarts Phillps 20-50XC
Complied with recurring AD 2000-01-16 parts b, c, and e.
I certify this ENGINE has been inspected in accordance with an annual inspection and has been found to be in an airworthy condition. X  Justin C. Baker IA543081705
N502JJ BLUE MOUNTAIN AIRCRAFT 12/1/2012
N502JJ BLUE MOUNTAIN AIRCRAFT 12/1/2012 ——
RIGHT ENGINE S/N: 514534
TACH: N/A HOBBS: 194.2 TTE: 4777.2 SMOH: 194.2
> Complied with an Annual inspection.
> Changed oil and serviced with 12 quarts Phillps 20-50XC
> Complied with recurring AD 2000-01-16 parts b, c, and e.
I certify this ENGINE has been inspected in accordance with an annual inspection and has been found to be in an airworthy condition. X
DILLE MOUNTAIN AIRCRAFT
N502JJ BLUE MOUNTAIN AIRCRAFT 11/23/2013
TACH: N/A HOBBS: -192.4223,4 TTE: 4775.400 SMOH: 192.4 223.4
TACH: N/A HOBBS: -192.4 223.4 TTE: 4775.497 SMOH: 192.4 223.4
> Complied with an Annual inspection.
> Changed oil and serviced with 12 quarts Phillps 20-50XC
> Complied with recurring AD 2000-01-16 parts b, c, and e.
I certify this ENGINE has been inspected in accordance with an annual inspection and has been found to be in an airworthy condition. X Justin C. Baker IA543081705
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9 No					
_ [			В	LUE MOUNTAIN AIRCRAFT	12/17/2014
DAINS	502JJ			(541) 663-6139	12/1//2014
				RIGHT ENGINE S/N: 514534	W. C.
	TACH: N	/A	HOBBS:	266.2 TTE: 4849.2	SMOH: 266.2
		omplied with a		ection.	
_	> C	hanged oil and	serviced with	12 quarts Phillps 20-50XC	
- 1	> C	omplied with r	acurring AD 2	000_01_16 parts b, c, and e.	1
I cer	tify this E	NGINE has be	en inspected in	accordance with an annual inspe	ection and has been found to be in an Baker IA543081705
— airw	orthy cond	ition. X	Ve-	Justin C. E	Saket 1A343001703
NEC	2211	1 /	BLU	JE MOUNTAIN AIRCRAFT	12/2/2015
N50	72]]			(541) 663-6139	12/2/2015
			R	GHT ENGINE S/N: 514534	
- Г	ACH: N/A	н		99.9 TTE: 4982.9	SMOH: 399.9
		nplied with an		33.3	
] ;		1000		quarts Phillps 20-50XC	
- ;					I
				0-01-16 parts b, c, and e.	tion and has been found to be in an
	this ENC thy conditi		enspected in a	Justin C. Bak	cion and has been found to be in an er IA543081705
		, ,		1	
N5	02JJ		BL	UE MOUNTAIN AIRCRAFT	2/17/2017
1.15	0233			(541) 663-6139	2/17/2017
			R	IGHT ENGINE S/N: 514534	1
1	TACH: N/	4 H	OBBS: 5	11.4 TTE: 5094.4	SMOH: 511.4
,	> Cor	nplied with an	Annual inspec	tion.	
;	> Cha	nged oil and so	erviced with 12	2 quarts Phillps 20-50XC	1-
,	> Cor	nplied with rec	urring AD 200	00-01-16 parts b, c, and e.	1.
I certi	fy this EN	GINE has been	inspected in a	accordance with an annual inspec	tion and has been found to be in an
	rthy condit		(Vene		ker IA543081705
				•	
1-	23-18	HOUSES	521.4		
	9,10,	1,01313	32.77	COMPIED WITH	+ AN ANNUAL INSPIRE
				- complete with	ELCURRIAL AD 2000-01-11
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	inspi	Ther A	AD ASAS	BURN FUND AIRM	
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