

ENGINE MAJOR OVERHAULED TO MANUFACTURERS SPECIFICATIONS.TT 1584.9 TSMOH 1.1 (test run)Model TSIO-520-NB S/N 519204

The aircraft, airframe, aircraft engine, propeller, or appliance identified above was repaired and inspected in accordance with manufactures specifications and current Regulations of the Federal Aviation Agency and is approved for return to service. Pertinent details of the repairs are on file at this repair station under,

Work Order No. 15175Date 19AUG98Signed Mark D. Lutting for CRS#DC2R763K

CUSTOM AIRMOTIVE, INC.
2702 N. SHERIDAN, BLDG. B
TULSA, OK 74115
ph. (918) 836-6836 fax (918) 836-9431

Note: Fuel system, turbocharger and magnetos were also overhauled (see appropriate tags). Spark plugs, ignition harness and oil filter are new. CHANNEL CHROME cylinders were installed at this overhaul.

AIRWORTHINESS DIRECTIVES FOR: TYPE CERTIFICATE NUMBER E8CE

MODEL TSIO-520-NB S/N 519204 WO# 15175 TT 1584.9

A.D.#	METHOD OF COMPLIANCE
78-06-01	P/C/W; HAD P/N 642590 TUBE @ #2 CYL..
79-05-09	C/W; HAS PROPER VALVE & ASSOC. PARTS.
80-01-04	N/A TO THESE CYLINDERS.
81-24-06	FUEL SYSTEM OVERHAULED @ TCM FACTORY.
82-09-01	TO BE C/W UPON INSTALLATION IN THE A/C.
86-13-04R3	C/W AS NECESSARY DURING CYLINDER OVERHAUL.
88-03-06	C/W BY USE OF A CHAMPION FILTER.
89-24-01R1	C/W BY USE OF P/N 649157 & 649159 GEARS.
91-19-03	C/W BY USE OF FILTER WITH PROPER CODE AT O-H.
93-08-17	N/A PER MODEL OR S/N.
93-10-02	N/A; PROPERLY ASSEMBLED CYLINDERS.
93-16-15	C/W BY USE OF P/N 653359 COUPLING.
95-21-15	N/A TO THIS ENGINE.
97-26-17	C/W; CRANKSHAFT ULTRASONIC INSPECTED & IS A VAR TYPE.
98-01-08	N/A; HAS TCM ROCKER ARMS.

SIGNED Mark D. Lutting FOR CRS# DC2R763K ON 19AUG98

SUB-TOTALS this page

TOTALS—Carry forward to next page

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page
				10-02-98 N721YG RIGHT ENGINE HOBBS: 2833.2 SMOH: 0 INSTALLED THIS ENGINE ON N721YG, S/N 340-342. ADD 12 QTS OF PHILLIPS 20W50 XC. GROUND RUN AND CHECK FOR LEAKS. <i>Walter Brown</i> WALTER BROWN 441480417A&P
				I CERTIFY THAT THIS <u>Engine</u> HAS BEEN INSPECTED IN ACCORDANCE WITH A <u>IAN Annual</u> INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. SIGNATURE <u>Ralph Wynn</u> A&P, IA <u>443421026</u>
6-13-99			2870.0	oil Change . Filter 14 QTS 4100 - 50wt. AeroShell <i>Walt Murphy</i> 530 466344 OWNER
6-25-99			2870.0	ADJUST FUEL FLOWS ON RIGHT ENGINE PER CESSNA MAINTANANCE MANUAL PAGE 9-34 PARAGRAPHS 2a thru 2h ENGINE GROUND RUN AND OPS CHECK OK AT THIS TIME Ron's Aircraft Service, Inc. FAACRS #BJUR641K Signature <i>[Signature]</i> RFS WO 9615
6-25-99			2870.0	Installed new Fuel limiter PN 6421002 SN 519204 I/ABR teledine T5E0-520 Service manual Leak check and ops check scot Russell Jorg AP 518292069
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6/20/99			2870.0	INSTALLED SHADIN DIGIFLO FUEL FLOW TRANSDUCER P/N 660526. INSTALLED ACCORDING TO FACTORY SPECIFICATIONS, SHADIN DRAWING NUMBER 4021-21 AND STC SE4446L DATED SEPT. 12, 1990 James L Szudlow 284322899 ACP
9-15-99			2903.2	Replace Oil - Air Separator Oilt McKulag Owner
12-21-99			2934.7	Compression CK as follows. #1 73/80 #2 68/80 #3 50/80 #4 72/80 #5 70/80 #6 70/80. Remove Cly #3 & Repair Per Work Order # 7439 By Medallion Engines. Oil Change & Filter, Clean & Gap Spark Plugs, Replace Air Cleaners 12 Qts 15W50 Aero Shell. Re seal Starter Adapter Bushing AP518292664 Replaced Vacuum Pump w/ 441 CW Airborne
1-1-00			2934.7	I CERTIFY THAT THIS ENGINE WAS INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND HAS BEEN DETERMINED TO BE IN AN AIRWORTHY CONDITION James L Szudlow 284322899 1A
				SUB-TOTALS this page
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4-2-00			2974.0	Removed and Replaced Right alternator installed overhauled Alternator Part no. ALV 9510R ser# A022801 See yellow tag dated 2-25-00 O/S check normal Russell Jorg AP518 292069
5-25-00			2982.5	Replace Exhaust Pipe tail Pipe installed clamps IAW 340 Service manual torque turbo clamp 40 in Lb leak checked OK Russell Jorg AP518 292069
8-26-00			3017.1	Oil & Filter. Test no. Leaks All OK. Owner
3-7-01			3071.3	changed oil and Filter serviced with 12 qts AS 15W50 Saftied oil Filter and drain plugs cleaned and gapped spark plugs compression as follows #1 $\frac{68}{80}$ #2 $\frac{68}{80}$ #3 $\frac{68}{80}$ #4 $\frac{48}{80}$ #5 $\frac{18}{80}$ #6 $\frac{70}{80}$ cu AD 2000-01-16 IAW paragraphs (b)(c)(d)(e)(f)(g) Replaced exhaust with new parts From Knisley welding Replaced v band clamps and exhaust gaskets Replaced waste gate Heat shield Russell Jorg AP518 292069
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MEDALLION ENGINES, INC.

4500 Andrews Street, #A North Las Vegas, NV 89030

MAINTENANCE RELEASE TAG

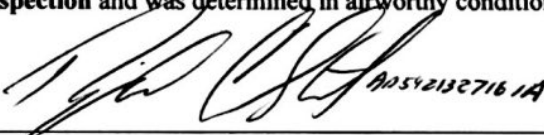
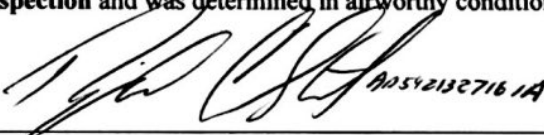
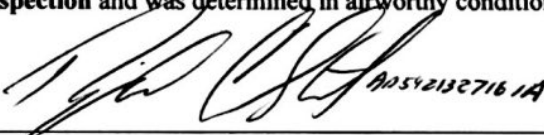
W/O No. 9295-11-2001 Ser No. A2198
 Model TEM Part No. 6392726
 Part Name Cylinder Assy.
 Remarks Cylinder (chrome) was overhauled
with new Guide, Rings and
Severable Valves and Piston.
All work per Tem manual.
 Inspector Tom Bennett Date 10-30-01
AP1688815

WORK PERFORMED—
 NO. OF PERSON PERFORMING WORK

ous page

Engine Has Been Inspected
and Annual Inspection and
To Be in Airworthy Condition
Thomas Zebelen 28432299113

<u>10/2/01</u>		<u>3129.3</u>	<u>Oil & filter Change</u> <u>Albt McHenry</u>	
<u>2-10-02</u>		<u>3179.8</u>	<u>Oil & filter Change</u> <u>Albt McHenry</u>	
<u>N721YG</u>	<u>Hobbs= 3205.7</u>	<u>04/05/02</u>		
<p>Drained engine oil and serviced with 12 Quarts Aeroshell 15/50 oil. Installed New CH48108 oil filter. Compression check as follows; 1=75/80, 2=70/80, 3=65/80, 4=65/80, 5=new, 6=60/80. Installed overhauled cylinder #5 position IAW TSIO520NB overhaul manual. Checked magneto timing and adjusted as required. Cleaned, gapped and rotated all spark plugs. Performed all 100 hour inspection requirements IAW Cessna 340 service manual. Engine ground run, ops and leak checks good. Cleaned and lubed all engine controls.</p> <p>I Certify that this Engine has been Inspected In Accordance with An Annual Inspection and was Determined in Airworthy Condition. Approved for Return to Service. <u>Langdon P. McF</u> <u>IA57317 0695</u></p>				
<u>6-10-02</u>		<u>32332</u>	<u>Oil & Filter Change</u> <u>Replace 11 qts 15-50</u> <u>Aero Shell.</u> <u>Albt McHenry 530466344</u>	
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2007 DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK															
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8-1-02			3284.9	Oil & Filter. Change. Aeroshell 15-50 & Champion 48108 Filter Olt McKay 530466344															
10-27-02			3334.1	oil & Filter Change. Champion 48108 & Aeroshell 15-50 Olt McKay 530466344															
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">N721YG</td> <td style="width: 25%;">Hobbs: 3423.9</td> <td style="width: 25%;">TSMO: 590.7</td> <td style="width: 25%;">05/19/03</td> <td style="width: 25%;">Rt. Engine</td> </tr> <tr> <td colspan="5"> Drained engines oil and serviced with 12 quarts Aeroshell 15/50 oil. Installed new CH48108 oil filter. Compression check as follows; 1= 62/80, 2= 65/80, 3= 75/80, 4= 70/80, 5= 65/80, 6= 60/80. Cleaned, gapped and rotated all spark plugs. Checked magneto timing and adjusted as required. Cleaned engine fuel strainer. Checked engine controls and rigging. Washed engine, cleaned and lubed all controls. Engine ground run, ops and leak checks good. I certify that this engine has been inspected IAW a 100 Hour/Annual Inspection and was determined in airworthy condition. Approved for return to service. </td> </tr> <tr> <td colspan="3" style="text-align: center;">  A0542132716 IA </td> <td colspan="2" style="text-align: center;"> Air Excel Maintenance 1201 Airport Road Boulder City, NV 89005 </td> </tr> </table>					N721YG	Hobbs: 3423.9	TSMO: 590.7	05/19/03	Rt. Engine	Drained engines oil and serviced with 12 quarts Aeroshell 15/50 oil. Installed new CH48108 oil filter. Compression check as follows; 1= 62/80, 2= 65/80, 3= 75/80, 4= 70/80, 5= 65/80, 6= 60/80. Cleaned, gapped and rotated all spark plugs. Checked magneto timing and adjusted as required. Cleaned engine fuel strainer. Checked engine controls and rigging. Washed engine, cleaned and lubed all controls. Engine ground run, ops and leak checks good. I certify that this engine has been inspected IAW a 100 Hour/Annual Inspection and was determined in airworthy condition. Approved for return to service.					 A0542132716 IA			Air Excel Maintenance 1201 Airport Road Boulder City, NV 89005	
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 A0542132716 IA			Air Excel Maintenance 1201 Airport Road Boulder City, NV 89005																
4-10-04			3384.6	Oil & Filter 12 qts Aeroshell 100 st. 50.															
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7/3/04		720.7	3581.2	<p>Drained engine oil and serviced with 12 qts Aeroshell 100 oil. Installed new CH4B108 oil filter. Cut old filter and inspected for contaminants, none noted. Compression check as follows; 1= 64/80, 2= 64/80, 3= NEW, 4= 71/80, 5= NEW, 6= 60/80. Installed 2 ea new ECI Nickel Cylinder assemblies S/n's 18150-19, and 18347-19 respectively with new piston, rings, seals and gaskets 1AWT510520 N13 Overhaul Manual and applicable TSM Service Bullets. Cleaned, gapped and retorted all spark plugs, checked magnet timing, no adjustment required. Washed engine, cleaned + lubed all controls. Engine ground run for leaks and initial "Break In" at #3 and #5 cylinders. Ground Run + Ops checks good. Checked all AD's to date and updated master listing. Inspected exhaust 1AW AD# 2000-01-16, see airframe logbooks for details.</p> <p>I Certify That This Engine has been inspected 1AEO a 100 Hour / Annual Inspection and was determined in Airworthy condition. Approved for Return to Service.</p> <p style="text-align: right;"><i>[Signature]</i> AP 542132716 1A</p>
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DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
2005	8955.1		3599.1	TOTALS brought forward from previous page
8-20				Drained Engine oil, serviced with 12 gts of W 100 50wt. Replace Filter CH 48108. Cleaned all Spark Plugs. Replace Air Cleaner Element with Bracket # BA 22 <i>Alt Wesley</i> A.P. # 3035934
8-20			3599.1	Compression Check #1 $\frac{64}{80}$ #2 $\frac{64}{80}$ #3 $\frac{78}{80}$ #4 $\frac{71}{80}$ #5 $\frac{79}{80}$ #6 $\frac{60}{80}$ <i>Alt Wesley</i> A.P. 3035934
2007				
5-2			3635.1	Oil Change With Filter Serviced with 12 gts of Aeroshell 100 - 50 wt @ Champion CH 48108 <i>Alt Wesley</i> A.P. - 3035934
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