

# ENGINE MAINTENANCE RECORDS

tion

N155RP

tion

Left

No.

244816.R

☐ Approved



Waco Regional Airport

Engine Previous Total:	911.2
Hour Meter:	2883.6
Since Remanufacture:	0.0
Propeller Total:	1546.6
Propeller Total SMOH:	0.0
Date:	10-18-99

TCM TSIO-520-NB Series VI L-244816.R

Above referenced engine remanufactured to new parts limits to conform W/TCM SM X-30574A. All gears cleaned, polished when required, inspected, magnafluxed and no cracks found. Finish and dimensional limits within RAM Gear Inspection Specification No. 1818, Rev. E dated 5/18/98. Installed above referenced engine modified to TSIO-520-NB 335 HP per STC SE4327SW in left position of Cessna s/n 340A1265. See 337. Engine installed with new shock mounts. Installed new RAM crankshaft p/n 1058-1SL, s/n F98107 per STC SE4327SW, Rev. 4. AD 97-26-17 c/w per installation of VAR crankshaft p/n 642396R s/n A700M4 per TCM CSB96-8 and c/w ultrasonic inspection per MSB 96-10. AD 99-19-01 c/w and found n/a per crankshaft date of manufacture I/AW TCM CSB 99-3C. Installed heavy style case p/n 643207 with new TCM channel chrome cylinders. Cylinders modified to RAM p/n 1158-2 per STC SE3631SW. Crankcase modified to RAM p/n 1157-7 per STC SE3630SW. Cylinder hold-down nuts replaced and torqued per Overhaul Manual Supplement. Installed Floscan transducer per STC SE5726SW. Re-installed overhauled propeller model PHC-C3YF-2UF s/n EB3199. Engine accessories exchanged for remanufactured or new units except as noted. Installed overhauled prop governor s/n 910189. Re-used customer's vacuum pump and tach generator. Installed factory overhauled turbocharger s/n CDN00015. New Slick pressurized magnetos p/n 6320 installed per STC SE4651SW and pressurized. SB94-8A on magneto timing procedure c/w per timing to STC degree requirements with TDC locator and protractor with pointer. AD 86-13-04 R3 n/a per new TCM chrome cylinder assembly p/n. Installed modified connecting rods p/n 1162-1 with bearing p/n 630826 per STC SE4327SW as FAA-PMA approved replacement. Installed RAM/FAA/PMA rocker arms p/n 1158-10 and -11. AD 98-01-08 n/a per installation of RAM/FAA/PMA rocker arms. Cadmium plating of engine hardware and associated lines and fittings per QQ-P-416C Class 2, Type II. C/W AD 75-23-08 R5 per inspections outlined in para's I A (1) (2) (3) of components in Table II. Installed new Aeroquip integral firesleeved fuel and oil hoses meeting TSO-C53A Type D and TSO-C75 Type III. Exhaust slip joints modified per STC SA4331SW. AD 93-08-17 not applicable per engine model. C/W AD 78-06-01 per installation of intake tube p/n 642590. C/W AD 79-05-09 per installation of new current design oil pressure plunger assy. C/W AD 89-24-01 R1 per installation of starter adapter p/n 642085A15 with current scavenge pump gears. Category 1 thru 3 TCM Service Bulletin Compliance Listing in RAM Manual. Engine serviced with Phillips multi-grade 20W50 Type M mineral oil. See RAM Recommended Oil Grade Maintenance Tip MT-1web for recommended oils. AD 76-02-07 n/a per installation of Teledyne Crittenden alternator. Above referenced engine was made eligible for 1600 hr. TBO per TCM SIL98-9, Note 2 and RAM Service Letter 89-001. All aluminum alloy engine parts were coated per RAM Specification No. 1142. Crankshaft assy., connecting rods, pistons, piston pins and turbocharger compressor wheel assy's. were balanced per RAM Specification No. 1161. See RAM Certificate. Propeller balanced per Service Manual with spinner and bulkhead installed. Installed spring loaded induction clamps p/n 1170-2 per STC SE3632SW. Installed RAM/FAA/PMA rocker box cover gaskets p/n 1387-1. C/W AD 93-16-15 per TCM SB MSB95-6 installation of fuel pump drive coupling p/n 653359. AD 93-10-02 (MSB 93-12) n/a per non-assembled new cylinders purchased and channel chromed. All engine systems checked for leaks. Engine approved for return to service for RAM Aircraft test flight procedures. Pertinent details on file under work order no. 4114.

*Robert Franklin*

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

Hour Meter:	2885.1
SMOH:	1.5
Date:	10-18-99

Engine pump pressure, idle, mixture, fuel flow, max RPM, manifold pressure, and oil pressure adjusted per RAM Series VI specifications. Engine ground run power test good. Details are on file under work order no. 4114.

*Robert Franklin*  
RAM Aircraft Corporation, P. O. Box 5219, Waco, Texas 76708

TESSNA 340A  
N # 155RP  
S/N 340A1265

ENGINE LOG #1  
TT 1802  
TSMOH 891  
REC. HR. METER 3774

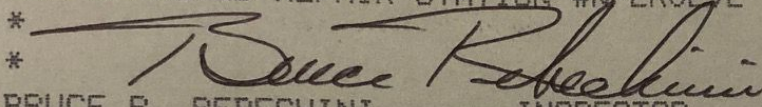
ENGINE MODEL TS10-520-NB  
ENGINE S/N 244816-R

LH ENGINE INSPECTION-

AT THIS TIME, AN ANNUAL INSPECTION WAS PERFORMED ON THIS ENGINE. COMPRESSION WAS TESTED AS FOLLOWS: #1-62, #2-62, #3-64, #4-68, #5-70, #6-60---ALL OVER 80. CHANGED THE OIL & FILTER. OPENED AND INSPECTED THE FILTER. SERVICED THE ENGINE WITH 20W50XC PHILLIPS OIL. CLEANED, GAPPED, TESTED & ROTATED THE SPARK PLUGS. TESTED THE IGNITION LEADS. CHECKED MAG TIMING AND MAG TO ENGINE TIMING. ULTRASONICALLY CLEANED THE FUEL INJECTORS AND REPLACED THE SEALS, INCLUDING UPPER DECK SEALS. INSPECTED THE ENGINE ACCESSORIES FOR PROPER CONDITION, ATTACHMENT AND OPERATION. CHECKED THE INDUCTION, EXHAUST TURBO SYSTEMS FOR PROPER CONDITION.

THESE ITEMS WERE REPAIRED, REPLACED OR CORRECTED:

I CERTIFY THAT THIS ~~ENGINE~~ WAS REPAIRED AND/OR INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND IS APPROVED FOR RETURN TO SERVICE. PERTINENT DETAILS ARE ON FILE AT THIS REPAIR STATION UNDER W.O.# 15144. DATE OCTOBER 7, 2006  
J.A. AIR CENTER, DUPAGE AIRPORT, WEST CHICAGO, IL 60185  
FAA APPROVED REPAIR STATION #NF2R029L

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\*  
BRUCE P. REBECHINI INSPECTOR

J A AIR CENTER DuPage Airport/WestChicago, IL. 60185 P 1  
Repair Station #NF2R029L ENGINE LOG #1  
Type CESSNA 340A TT 1805  
N # 155RP TSMOH 894  
S/N 340A1265 REC. HR. METER 3777

ENGINE MODEL TS10-520-NB  
ENGINE S/N 244816-R

LH ENGINE SB06-2 APPLICABILITY CHECK-

INSPECTED CYLINDERS AS PER SB06-2 PARAGRAPH 4 AND DETERMINED ALL 6 CYLINDERS HAVE NO MARKINGS STAMPED ON PER PHOTOGRAPH #3. SB06-2 DOES NOT APPLY PER PARAGRAPH 3.

THE AIRCRAFT, ENGINE, APPLIANCE, OR COMPONENT IDENTIFIED WAS REPAIRED & INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FEDERAL AVIATION AGENCY AND IS APPROVED FOR RETURN TO SERVICE. PERTINENT DETAILS OF THE REPAIR ARE ON FILE AT THIS REPAIR STATION UNDER W.O. # 15596 DATE: FEBRUARY 1, 2007

SIGNED: BRUCE P. REBECHINI  For  
J.A. AIR CENTER, DUPAGE AIRPORT, W. CHICAGO, IL 60185  
F.A.A. APPROVED REPAIR STATION #NF2R029L

DATE

J A AIR CENTER DuPage Airport/WestChicago, IL. 60185 P 1  
 Repair Station #NF2R029L ENGINE LOG #1  
 Type CESSNA 340A TT 1810  
 N # 155RP TSMOH 899  
 S/N 340A1265 REC. HR. METER 3782

ENGINE MODEL TS10-520-NB

ENGINE S/N 244816-R

ECI SERVICE BULLETIN 06-2 DUE, LEFT ENGINE:

COMPLIED WITH ECI MANDATORY SERVICE BULLETIN SB06-2 BY  
 INSPECTING THE CYLINDERS FOR APPLICABILITY. NO CYLINDERS  
 APPLY DUE TO AN E STAMPED ON EACH CYLINDER.

THE AIRCRAFT, ENGINE, APPLIANCE, OR COMPONENT IDENTIFIED WAS  
 REPAIRED & INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS  
 OF THE FEDERAL AVIATION AGENCY AND IS APPROVED FOR RETURN TO  
 SERVICE. PERTINENT DETAILS OF THE REPAIR ARE ON FILE AT THIS  
 REPAIR STATION UNDER W.O. # 15423 DATE: FEBRUARY 9, 2007

SIGNED: DONALD K. MORGAN

*Donald K. Morgan*

For

J.A. AIR CENTER, DUPAGE AIRPORT, W. CHICAGO, IL 60185

F.A.A. APPROVED REPAIR STATION #NF2R029L

J A AIR CENTER DuPage Airport/WestChicago, IL. 60185 P 1  
 Repair Station #NF2R029L ENGINE LOG #1  
 Type CESSNA 340A TT 1812  
 N # 155RP TSMOH 901  
 S/N 340A1265 REC. HR. METER 3784

ENGINE MODEL TS10-520-NB

ENGINE S/N 244816-R

LH ENGINE BOOST LOW-

INSTALLED TROUBLESHOOTING INSTRUMENTATION AND VERIFIED  
 VISUAL OPERATION OF WASTEGATE. REMOVED AIR FILTER AND  
 INSPECTED TURBINE. ALL FOUND TO BE IN AIRWORTHY CONDITION.  
 CLEANED OIL LINES AND FITTINGS FOR THE WASTEGATE ACTUATOR.  
 GROUND RUN OPERATIONAL CHECK SATISFACTORY. REMOVED TEST  
 EQUIPMENT, OPERATED ENGINE AND DETECTED NO LEAKS.

THE AIRCRAFT, ENGINE, APPLIANCE, OR COMPONENT IDENTIFIED WAS  
 REPAIRED & INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS  
 OF THE FEDERAL AVIATION AGENCY AND IS APPROVED FOR RETURN TO  
 SERVICE. PERTINENT DETAILS OF THE REPAIR ARE ON FILE AT THIS  
 REPAIR STATION UNDER W.O. # 15978 DATE: AUGUST 6, 2007

SIGNED: DONALD K. MORGAN

*Donald K. Morgan*

For

J.A. AIR CENTER, DUPAGE AIRPORT, W. CHICAGO, IL 60185

F.A.A. APPROVED REPAIR STATION #NF2R029L

DATE \_\_\_\_\_

J A AIR CENTER DuPage Airport/WestChicago, IL. 60185 P 1

Repair Station #NF2R029L

ENGINE LOG #1

Type CESSNA 340A

TT 1812

N # 155RP

TSMOH 901

S/N 340A1265

REC. HR. METER 3784

ENGINE MODEL TS10-520-NB

ENGINE S/N 244816-R

NO BOOST LH ENGINE-

REMOVED OIL SUPPLY LINE FROM WASTEGATE AND FLUSHED OUT THE WASTEGATE. FOUND A LARGE AMOUNT OF CARBON IN THE OIL.

DRAINED ENGINE OIL AND REFILLED WITH 12 QTS OF 20W50X/C .

REMOVED OIL FILTER AND INSTALLED NEW FILTER P/N AA48108.

RAN ENGINE FOR 30 MINTUES WITH WASTEGATE OIL SUPPLY LINE

DISCONNECTED FROM WASTEGATE AND CIRCULATING BACK INTO

ENGINE OIL FILL TUBE. RECONNECTED ALL HOSES AND RAN ENGINE

INDICATING PROPER BOOST AT THIS TIME.

THE AIRCRAFT, ENGINE, APPLIANCE, OR COMPONENT IDENTIFIED WAS

REPAIRED & INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS

OF THE FEDERAL AVIATION AGENCY AND IS APPROVED FOR RETURN TO

SERVICE. PERTINENT DETAILS OF THE REPAIR ARE ON FILE AT THIS

REPAIR STATION UNDER W.O. # 14092 DATE: OCTOBER 1, 2007

SIGNED: BRUCE P. REBECHINI

For

J.A. AIR CENTER, DUPAGE AIRPORT, W. CHICAGO, IL 60185

F.A.A. APPROVED REPAIR STATION #NF2R029L

Date: November 15, 2007

Left Engine Maintenance Log

N155RP

AF.T.T.: 3784.9 hrs

Hobbs: 3784.9hrs

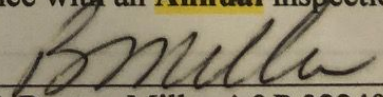
Eng S/N 244816-R

Engine Time Since Major Overhaul: 901.9 hours

This engine has been inspected and serviced in accordance with Chapter 2A of the Cessna 340 Series Service manual. Accomplished the inspection checklist for a 200 hour/ Annual inspection.

1. Cleaned and inspected fuel injector nozzles. Reinstalled injector nozzles using new o-rings, TCM P/N 630979-9, and washers, TCM P/N 640612.
2. Cylinder inspection and compression test accomplished in accordance with TCM Service Bulletin M84-15 for the compression test and TCM Service Bulletin SB96-12 for inspection and continued airworthiness of cylinders. Cyl#1 72/80, Cyl#2 65/80, Cyl#3 70/80, Cyl#4 71/80, Cyl#5 70/80, Cyl#6 68/80. All cylinder leakage was limited to dynamic leakage at rings and no static leakage noted at valves.
3. Removed oil supply and return lines from turbocharger bearing cavity and treated with Berryman's B-12 Chemtool as per RAM Aircraft recommendation. Flushed cavity with mineral spirits and pre oiled. Reassembled oil supply line.
4. Checked and re-timed magnetos to engine.
5. Oil and filter not changed at this time due to recent oil change by JA Aircenter.
6. During pressure check of induction system, found excessive leakage at intercooler to throttle connection. Disassembled, cleaned and installed a new o-ring on throttle body, P/N MS9388-150.
7. During pressure check of exhaust system, found bearing seal for turbocharger leaking heavily into compressor and exhaust side of turbocharger. Removed and installed a RAM overhauled Garrett turbocharger, S/N DIL13018, P/N 2060/1.
8. During installation of rebuilt turbocharger, found cracked clamp for overboard tailpipe to turbocharger connection. Installed new one piece clamp from RAM, P/N 2274-50.
9. Straightened out messy wiring on left side of engine and wrapped with high temp silicone tape.
10. Removed both exhaust slip joints, cleaned and lubed with NeverSeize as per RAM Aircraft recommendation. Reassembled and reinstalled slip joints as per Cessna Service Manual.
11. Inspected exhaust system in accordance with AD 2000-01-16. Complied with par. (b) by visual inspection of the exhaust system, next inspection due at 3834.9 hrs. TT airframe or HOBBS time, or by December 17, 2007, whichever comes first. Complied with par. (c) by removing and visually inspecting the tailpipe, next inspection due November 2008. Par. (d) due at 4274.0 hours Airframe TT. Complied with par. (e) by pressure test of the exhaust system, next pressure test due November 2008. Par. (f) is a N/A all clamps are single piece "V" band clamps. Par. (g) is next due at engine overhaul.
12. Washed engine and accomplished engine run-up and leak check.

AD's checked and researched with T-Data issue 2007-20. See master AD listing for compliance status. I certify that this engine has been inspected in accordance with an Annual inspection and has been determined to be in airworthy condition.

  
T. Benton Miller A&P 322400700 I.A.

ENGINE MODEL:  
ENGINE S/N (L):  
REG. NO: N155RP  
WORK ORDER: 18197



## Aerodyne Corporation

Repair Station No. HO1R-199K  
5198 West Military Highway  
Chesapeake, VA 23321 USA  
Phone: (757) 488-2898

DATE: 11/28/2007  
A/C TSN:  
ENG TT (L):  
HOBBS: 3791.5

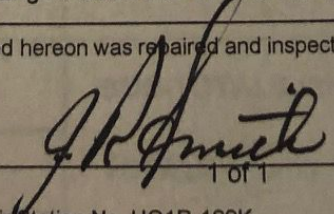
## Left Engine Entries

- (1) Uncowled and inspected left engine induction system for possible intake leaks. Lubricated and actuated wastegate valve. Recowled engine. Performed engine run-up. Engine boosts to 41" manifold pressure.

The aircraft, engine, propeller or component identified hereon was repaired and inspected in accordance with current Regulations of the Federal Aviation Agency and is approved for return to service.


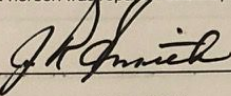
DATE: 11/28/2007


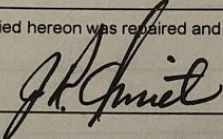
SIGNED:

  
J.R. Smith  
Certified Repair Station No. HO1R-199K

Work Order: 18197

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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
<b>TOTALS</b> brought forward from previous page				
				<p>MAKE: Cessna MODEL: 340A S/N: 340A1265 REG. NO: N155RP WORK ORDER: 18303</p> <p> <b>Aerodyne Corporation</b> Repair Station No. HO1R-199K 5198 West Military Highway Chesapeake, VA 23321 USA Phone: (757) 488-2898</p> <p>DATE: 3/7/2008 A/C TSN: HOBBS: 3811.2</p> <p><b>Airframe Entries</b> (1) Troubleshoot customer report that "right landing light will not retract and light does not illuminate." Installed new right landing light circuit breaker. Operational check satisfactory.</p> <p>The aircraft, engine, propeller or component identified hereon was repaired and inspected in accordance with current Regulations of the Federal Aviation Agency and is approved for return to service.</p> <p>DATE: 3/7/2008      SIGNED:       Work Order: 18303 J.R. Smith Certified Repair Station No. HO1R-199K      Printed by EBis 3 (datcomedia.com)</p>

<p>MAKE: Cessna MODEL: 340A S/N: 340A1265 REG. NO: N155RP WORK ORDER: 18321</p> <p> <b>Aerodyne Corporation</b> Repair Station No. HO1R-199K 5198 West Military Highway Chesapeake, VA 23321 USA Phone: (757) 488-2898</p> <p>DATE: 3/26/2008 A/C TSN: HOBBS: 3813.9</p> <p><b>Airframe Entries</b> (1) Installed new nose baggage compartment light assembly.....(2) Installed new right engine OEM exhaust gas temperature indication probe. Operational check satisfactory.....(3) Fixed seat back in upright position on passenger aft facing seat directly behind the pilot's seat.</p> <p>The aircraft, engine, propeller or component identified hereon was repaired and inspected in accordance with current Regulations of the Federal Aviation Agency and is approved for return to service.</p> <p>DATE: 3/26/2008      SIGNED:       Work Order: 18321 J.R. Smith Certified Repair Station No. HO1R-199K      Printed by EBis 3 (datcomedia.com)</p>
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2/26/08      3813.9      Oil & Filter Change - ~~both~~ engine  
 11 qts Phillips x/c  
 Shaun Carwell ATP # 1705018

ENGINE MODEL:  
TSIO-520-NB  
ENGINE S/N (L): 244816-R  
REG. NO: N155RP  
WORK ORDER: 18380



**Aerodyne Corporation**  
Repair Station No. HO1R-199K  
5198 West Military Highway  
Chesapeake, VA 23321 USA  
Phone: (757) 488-2898

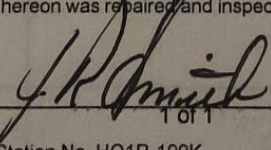
DATE: 5/29/2008  
A/C TSN: 3822.4  
ENG TT (L): 939.4  
TSMOH (L): 939.4  
HOBBS: 3822.4

### Left Engine Entries

(1) Adjusted left engine fuel flows in accordance with Ram Aircraft Service Information Directive SID2006-01. Engine run up check satisfactory.

The aircraft, engine, propeller or component identified hereon was repaired and inspected in accordance with current Regulations of the Federal Aviation Agency and is approved for return to service.

DATE: 5/29/2008

SIGNED: 

J.R. Smith  
Certified Repair Station No. HO1R-199K

Work Order: 18380

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**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

**Miller Airmotive, Inc.**

Sandwich Airport (IS65) Rt. 34 west  
815-735-9232

Sandwich Illinois 60548

**Date: January 10, 2009**

**Left Engine Maintenance Log**

**N155RP**

**AF.T.T.: 3868.1 hrs**

**Hobbs: 3868.1hrs**

**Eng S/N 244816-R**

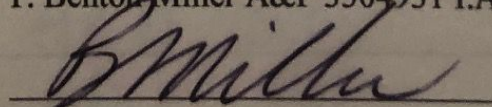
**Engine Time Since Major Overhaul: 985.1 hours**

This engine has been inspected and serviced in accordance with Chapter 2A of the Cessna 340 Series Service manual. Accomplished the inspection checklist for a 200 hour/ Annual inspection.

1. Accomplished pressure test of exhaust and induction systems using shop air and pressurizing through the #5 cylinder exhaust and intake valves.
2. Cylinder inspection and compression test accomplished in accordance with TCM Service Bulletin M84-15 for the compression test and TCM Service Bulletin SB96-12 for inspection and continued airworthiness of cylinders. Cyl#1 78/80, Cyl#2 76/80, Cyl#3 72/80, Cyl#4 76/80, Cyl#5 66/80, Cyl#6 70/80. Cylinder leakage limited to dynamic leakage at rings, no static leakage noted at valves. Accomplished a borescope inspection of all cylinders. All cylinders and valves appear to be in airworthy condition.
3. Cleaned and inspected fuel injector nozzles using an ultrasonic cleaner. Reinstalled injector nozzles using new o-rings, TCM P/N AEC630979-9, and washers, TCM P/N AEC640612. Installed new rubber seals at upper deck pressure connections, TCM P/N 633958-3.
4. Removed oil supply and return lines from turbocharger bearing cavity and treated with Berryman's B-12 Chemtool as per RAM Aircraft recommendation. Flushed cavity with mineral spirits and pre oiled. Reassembled oil supply line.
5. Checked and re-timed magnetos to engine.
6. Changed oil and filter. Added 12 quarts of Phillips XC 20W50 oil and installed a new Champion CH48108-1 oil filter. Opened old oil filter and inspected for contamination. Found to be OK.
7. Found front crankshaft oil seal leaking and slinging oil. Removed propeller, removed old seal, cleaned seal cavity and reinstalled a new oil seal, TCM P/N 641250. Reinstalled and torque propeller per Hartzell instructions using a new propeller O-ring, P/N .
8. Cleaned contact ring and brush assembly for propeller deicer boots. Reinstalled and adjusted clearance as per the Service Manual.
9. Removed both exhaust slip joints, cleaned and lubed with NeverSeez. Reassembled and reinstalled slip joints as per Cessna Service Manual and RAM aircraft recommendation using new slip joint hardware kit for reinstallation, RAM P/N 1001-6.
10. Opened air oil separator, removed and cleaned filter element using an ultrasonic cleaner. Flushed out inside of separator housing and scavenge line to oil pump. Reinstalled filter element using a new O-ring, AN6227B-27 in cover.
- 11.. Inspected exhaust system in accordance with AD 2000-01-16. Complied with par. (b) by visual inspection of the exhaust system, next inspection due at 3918.1 hrs. TT airframe or HOBBS time, or by February 10, 2009, whichever comes first. Complied with par. (c) by removing and visually inspecting the tailpipe, next inspection due February 2010. Par. (d) due at 4274.0 hours Airframe TT. Complied with par. (e) by pressure test of the exhaust system, next pressure test due February 2010. Par. (f) is a N/A all clamps are single piece "V" band clamps. Par. (g) is next due at engine overhaul.
12. Washed engine and accomplished engine run-up and leak check.

AD's checked and researched with T-Data issue 2008-22. See master AD listing for compliance status. I certify that this engine has been inspected in accordance with an **Annual** inspection and has been determined to be in airworthy condition.

T. Benton Miller A&P 3304931 I.A.



6-14-09 3890.1 1007.1 3890.1 Oil & Filter Change. Runup & leak check OK  
 12 qts Phillips x/c 20-50  
 Champion CH 48108 Filter  
 Glenn Carwell ATP# 1705018

ENGINE MODEL:  
 TSIO-520-NB  
 ENGINE S/N (L): 244816-R  
 REG. NO: N155RP  
 WORK ORDER: 18845



**Aerodyne Corporation**

Repair Station No. HO1R-199K  
 5198 West Military Highway  
 Chesapeake, VA 23321 USA  
 Phone: (757) 488-2898

DATE: 7/15/2009  
 A/C TSN: 3900  
 ENG TT (L): 1017  
 TSMOH (L): 1017  
 HOBBS: 3900

**Left Engine Entries**

(1) Complied with AD 2000-01-16 by visual inspection of the left engine exhaust system in accordance with paragraph (b). Next inspection for paragraph (b) due at 3950.0 TT. Found clamp, at 90 degree fitting from turbo to wastegate, cracked. Installed new clamp.....(3) Checked left engine fuel pressures in accordance with TCM SID 97-3E. Fuel pressures within manufacturer's specifications.

The aircraft, engine, propeller or component identified hereon was repaired and inspected in accordance with current Regulations of the Federal Aviation Agency and is approved for return to service.

DATE: 7/15/2009

SIGNED:

J.R. Smith  
 Certified Repair Station No. HO1R-199K

Work Order: 18845

Printed by EBis 3 (datcomedia.com)

ENGINE MODEL:  
 TSIO-520-NB  
 ENGINE S/N (L): 244816-R  
 REG. NO: N155RP  
 WORK ORDER: 18922



**Aerodyne Corporation**

Repair Station No. HO1R-199K  
 5198 West Military Highway  
 Chesapeake, VA 23321 USA  
 Phone: (757) 488-2898

DATE: 9/15/2009  
 A/C TSN: 3911.9  
 ENG TT (L): 1028.9  
 TSMOH (L): 1028.9  
 HOBBS: 3911.9

**Left Engine Entries**

(1) Troubleshoot customer report of oil leak on front on left engine. Determined propeller governor pressure relief valve to be leaking. Removed propeller governor. Installed new relief valve nut, o'ring and plug in accordance with McCauley Service Letter 1998-22A. Reinstalled governor with new gasket. Cleaned engine. Performed engine ground run. Propeller operational and leak check satisfactory.....(2) Installed new left engine #6 cylinder exhaust gas temperature probe.

The aircraft, engine, propeller or component identified hereon was repaired and inspected in accordance with current Regulations of the Federal Aviation Agency and is approved for return to service.

DATE: 9/15/2009


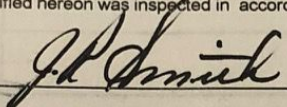
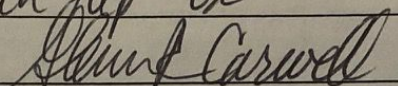
SIGNED:

J.R. Smith  
 Certified Repair Station No. HO1R-199K

Work Order: 18922

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2/09	1032	oil & Filter Change
3925	3925	11 qts Shell 15-50, Champion CH 48108 Filter. Runup & leak check OK
		Glenn Carwell ATP 1705018
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
<b>TOTALS</b> brought forward from previous page				
ENGINE MODEL: TSIO-520-NB ENGINE S/N (L): 244816-R REG. NO: N155RP WORK ORDER: 19079		 <b>Aerodyne Corporation</b> Repair Station No. HO1R-199K 5198 West Military Highway Chesapeake, VA 23321 USA Phone: (757) 488-2898		DATE: 3/19/2010 A/C TSN: 3939.9 ENG TT (L): 1056.9 TSMOH (L): 1056.9 HOBBS: 3939.9
<b>Left Engine Entries</b> (2) Completed left engine 100 hour inspection in accordance with the manufacturer's instructions and recommendations. Compression check: #1-68/80, #2-50/80, #3-55/80, #4-70/80, #5-63/80, #6-72/80. Cleaned, gapped and tested spark plugs. Checked ignition timing. Cleaned engine.....(21) Changed left engine oil and filter. Installed 10 quarts of Phillips 20W-50 oil and Tempest AA48108-2 filter. Inspected removed filter. No contamination.....(24) Installed new left engine upper deck pressure hose (s) from throttle body to rail manifold.				
The aircraft, engine, propeller or component identified hereon was inspected in accordance with a 100 Hour Inspection, found to be in an airworthy condition and approved for return to service.				
DATE: 3/19/2010		SIGNED:  J.R. Smith Certified Repair Station No. HO1R-199K		Work Order: 19079 Printed by EBis 3 (datcomedia.com)
4.10	1061.7	1061.7	3974	Oil & Filter Change • 11qts Exxon 20-50 Tempest 48/08 • No contaminants. Run up OK  ATP 1705018

ENGINE MODEL:  
TSIO-520-NB  
ENGINE S/N (L): 244816-R  
REG. NO: N155RP  
WORK ORDER: 19494

**Aerodyne Corporation**  
 Repair Station No. HO1R-199K  
 5198 West Military Highway  
 Chesapeake, VA 23321 USA  
 Phone: (757) 488-2898

DATE: 5/4/2011  
 A/C TSN: 3998  
 ENG TT (L): 1115  
 TSMOH (L): 1115  
 HOBBS: 3998

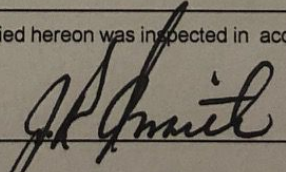
### Left Engine Entries

(2) Completed left engine 100 hour inspection in accordance with the manufacturer's instructions and recommendations. Compression check: #1-74/80, #2-76/80, #3-73/80, #4-74/80, #5-75/80, #6-75/80. Cleaned, gapped and tested spark plugs. Checked ignition timing. Cleaned engine.....(25) Changed left engine oil and filter. Installed 10 quarts of Phillips 20W-50 oil and Tempest AA48108-2 filter. Inspected removed filter. No contamination.....(26) Installed new spark plug #3 cylinder bottom position.....(27) Repositioned EGT probe clamp and induction clamp on #6 cylinder. Left engine propeller control functions properly after above adjustment.....(30) Removed, cleaned, inspected and reinstalled left engine air filter.....(31) Installed new left engine magneto pressure air filter.....(33) Fabricated and installed new left engine magneto pressure air hose from intercooler to magneto air filter.

The aircraft, engine, propeller or component identified hereon was inspected in accordance with a 100 Hour Inspection, found to be in an airworthy condition and approved for return to service.

DATE: 5/4/2011

SIGNED:

  
 J.R. Smith  
 Certified Repair Station No. HO1R-199K

Work Order: 19494

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ENGINE MODEL:  
TSIO-520-NB  
ENGINE S/N (L): 244816-R  
REG. NO: N155RP  
WORK ORDER: 19921



### Aerodyne Corporation

Repair Station No. HO1R-199K  
5198 West Military Highway  
Chesapeake, VA 23321 USA  
Phone: (757) 488-2898

DATE: 8/21/2012  
A/C TSN: 4047.8  
ENG TT (L): 1164.8  
TSMOH (L): 1164.8  
HOBBS: 4047.8

#### Left Engine Entries

(2) Completed left engine 100 hour inspection in accordance with the manufacturer's instructions and recommendations. Compression check: #1-76/80, #2-75/80, #3-76/80, #4-72/80, #6-72/80, #6-78/80. Cleaned, gapped and tested spark plugs. Checked ignition timing. Cleaned engine.....(11) Cleaned left and right engine turbo-charger bearing cavities with Berryman B12 Chemtool Solvent in accordance with RAM Aircraft Save-A-Turbo with Berryman's B12 Chemtool Recommended Instructions. After cleaning, prefilled bearing cavity and associated lines with engine oil.....(23) Changed left engine oil and filter. Installed 10 quarts of Phillips 20W-50 oil and Tempest AA48108-2 filter. Inspected removed filter. No contamination.....(24) Cleaned and inspected left engine air filter. Replacement due at 4439.9 TAT per AD 84-26-02.....(25) Inspected left engine turbo waste-gate for slight oil leak. Tightened fittings. Performed engine ground run. No further leakage detected.

The aircraft, engine, propeller or component identified hereon was inspected in accordance with a 100 Hour Inspection, found to be in an airworthy condition and approved for return to service.

DATE: 8/21/2012

SIGNED:

J.R. Smith  
Certified Repair Station No. HO1R-199K

Work Order: 19921

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ENGINE MODEL:  
TSIO-520-NB  
ENGINE S/N (L): 244816-R  
REG. NO: N155RP  
WORK ORDER: 20050



### Aerodyne Corporation

Repair Station No. HO1R-199K  
5198 West Military Highway  
Chesapeake, VA 23321 USA  
Phone: (757) 488-2898

DATE: 1/10/2013  
A/C TSN: 4080.6  
ENG TT (L): 1197.6  
TSMOH (L): 1197.6  
HOBBS: 4080.6

#### Left Engine Entries

(2) Troubleshoot customer report of high oil consumption on the left engine. Removed engine cowling. Inspected engine spark plugs for possible oil fouled plug(s). No defects noted. Performed cylinder compression check: #1-76/80, #2-73/80, #3-74/80, #4-72/80, #5-71/80, #6-76/80. Cleaned engine. Performed engine ground run to normal operating temperatures. Inspected engine for external oil leaks. No leaks noted. Reinstalled engine cowling.

The article identified hereon was inspected and repaired in accordance with current Federal Aviation Regulations, was found to be airworthy for the work performed and is approved for return to service.

DATE: 1/10/2013

SIGNED:

J.R. Smith  
Certified Repair Station No. HO1R-199K

Work Order: 20050

Printed by EBis 3 (datcomedia.com)

Jan 2013	1198.4	4081.4	oil + filter change - 11 qts Exxon EL 20/60, Tempest 48108 filter, filter inspected, no contaminants, Run OK - Stuart Carroll ATP 170508
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**Repair Station No. HO1R-199K**  
**5198 West Military Highway**  
**Chesapeake, VA 23321 USA**  
**Phone: (757) 488-2898**

### Left Engine Entries

(2) Completed left engine 100 hour inspection in accordance with the manufacturer's instructions and recommendations. Compression check: #1-72/80, #2-70/80, #3-74/80, #4-45/80, #5-76/80, #6-76/80. Cleaned, gapped and tested spark plugs. Checked ignition timing. Cleaned engine.....(10) Cleaned left and right engine turbo-charger bearing cavities with Berryman B12 Chemtool Solvent in accordance with RAM Aircraft Save-A-Turbo with Berryman's B12 Chemtool Recommended Instructions. After cleaning, prefilled bearing cavity and associated lines with engine oil. Lubricated wastegates with liquid penetrant oil.....(17) Changed left engine oil and filter. Installed 10 quarts of Phillips 20W-50 oil and Champion CH48108-1 filter. Inspected removed filter. No contamination.....(19) Cleaned and inspected left engine air filter. Per AD 84-26-02 replacement due by 4439.9 TAT.

The aircraft, engine, propeller or component identified hereon was inspected in accordance with a 100 Hour Inspection, found to be in an airworthy condition and approved for return to service.

**SIGNED:**

J.R. Smith  
Certified Repair Station No. HO1R-199K

Work Order: 20295

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ref	1254	4137	Oil & filter change. 11 qts Phillips X-C 20-50 Tempas 48108 Filter. Used filter incp No contaminants. Run up OK Dean R Carwell ATP 1705018
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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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TOTALS brought forward from previous page

ENGINE MODEL:  
TSIO-520-NB  
ENGINE S/N (L): 244816-R  
REG. NO: N155RP  
WORK ORDER: 20661



### Aerodyne Corporation

Repair Station No. HO1R-199K  
5198 West Military Highway  
Chesapeake, VA 23321 USA  
Phone: (757) 488-2898

DATE: 11/12/2014  
A/C TSN: 4165.9  
ENG TT (L): 1282.9  
TSMOH (L): 1282.9  
HOBBS: 4165.9

### Left Engine Entries

(1) Troubleshoot customer report that during flight at 17,000 feet the left engine began to lose power and then quit. Removed engine cowling. Found failed left engine turbocharger. Removed turbocharger. Installed overhauled turbocharger p/n: 2060-1, s/n: ICL00205. Turbocharger overhauled by RAM Aircraft under Work Order No. 82738. Performed engine ground run and found turbocharger and engine operation to be satisfactory. Reinstalled engine cowling.

The article identified hereon was inspected and repaired in accordance with current Federal Aviation Regulations, was found to be airworthy for the work performed and is approved for return to service.

DATE: 11/12/2014

SIGNED:

J.R. Smith  
Certified Repair Station No. HO1R-199K

Work Order: 20661

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ENGINE MODEL:  
TSIO-520-NB  
ENGINE S/N (L): 244816-R  
REG. NO: N155RP  
WORK ORDER: 20650



### Aerodyne Corporation

Repair Station No. HO1R-199K  
5198 West Military Highway  
Chesapeake, VA 23321 USA  
Phone: (757) 488-2898

DATE: 11/20/2014  
A/C TSN: 4165.9  
ENG TT (L): 1282.9  
TSMOH (L): 1282.9  
HOBBS: 4165.9

### Left Engine Entries

(2) Completed left engine 100 hour inspection in accordance with the manufacturer's instructions and recommendations. Compression check: #1-72/80, #2-68/80, #3-66/80, #4-76/80, #5-74/80, #6-70/80. Cleaned, gapped and tested spark plugs. Checked ignition timing. Cleaned engine.....(14) Cleaned left and right engine turbo-charger bearing cavities with Berryman B12 Chemtool Solvent in accordance with RAM Aircraft Save-A-Turbo with Berryman's B12 Chemtool Recommended Instructions. After cleaning, prefilled bearing cavity and associated lines with engine oil. Lubricated wastegates with liquid penetrant oil.....(15) Changed left engine oil and filter. Installed 10 quarts of Phillips 20W-50 oil and Champion CH48108-1 filter. Inspected removed filter. No contamination.....(16) Inspected left engine air filter element. Replacement due 4439.9 TAT per AD 84-26-02.....(18) Repaired left engine #4 cylinder bottom ignition lead shielding at the ferrule by re-terminating the ignition lead shielding.....(19) Removed left propeller to facilitate replacement of left engine crankshaft seal. Installed new crankshaft seal p/n: SA641250. Reinstalled propeller.....(26) AD 2014-05-29 "Superior Air Parts Investment Cast Cylinder Assemblies" determined to be not applicable to the left or right engines. Superior cylinders not installed. Continental cylinders installed.

The aircraft, engine, propeller or component identified hereon was inspected in accordance with a 100 Hour Inspection, found to be in an airworthy condition and approved for return to service.

DATE: 11/20/2014

SIGNED:

J.R. Smith  
Certified Repair Station No. HO1R-199K

Work Order: 20650

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ENGINE MODEL:  
TSIO-520-NB  
ENGINE S/N (L): 244816-R  
REG. NO: N155RP  
WORK ORDER: 20754



# Aerodyne Corporation

Repair Station No. HO1R-199K  
5198 West Military Highway  
Chesapeake, VA 23321 USA  
Phone: (757) 488-2898

DATE: 3/6/2015  
A/C TSN: 4198.1  
ENG TT (L): 1315.1  
TSMOH (L): 1315.1  
HOBBS: 4198.1

## Left Engine Entries

(3) Complied with AD 2000-01-16 Detect & Correct Cracks & Corrosion in the Exhaust System on both engines.....(4) Installed 10 quarts Phillips 20W50 XC oil and AA48108-2 oil filter. Inspected filter for contamination, no defects noted.

The article identified hereon was inspected and repaired in accordance with current Federal Aviation Regulations, was found to be airworthy for the work performed and is approved for return to service.

DATE: 3/6/2015

SIGNED:

J. H. Tarkington  
Certified Repair Station No. HO1R-199K

Work Order: 20754

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ENGINE MODEL:  
TSIO-520-NB  
ENGINE S/N (L): 244816-R  
REG. NO: N155RP  
WORK ORDER: 21081



# Aerodyne Corporation

Repair Station No. HO1R-199K  
5198 West Military Highway  
Chesapeake, VA 23321 USA  
Phone: (757) 488-2898

DATE: 1/27/2016  
A/C TSN: 4225.6  
ENG TT (L): 1342.67  
TSMOH (L): 1342.9  
HOBBS: 4225.6

## Left Engine Entries

(2) Completed left engine 100 hour inspection in accordance with the manufacturer's instructions and recommendations. Compression check: #1-68/80, #2-70/80, #3-68/80, #4-72/80, #5-66/80, #6-70/80. Cleaned, gapped and tested spark plugs. Checked ignition timing. Cleaned engine.....(7) Complied with AD 2000-01-16 "Detect and Correct Cracks in the Exhaust System" by inspection of the left and right engine exhaust systems in accordance with paragraphs (b), (c) and (e). Paragraph (b) due every 50 hours or 30 days whichever occurs later, paragraphs (c) and (e) due every 12 calendar months.....(11) Cleaned left and right engine turbo-charger bearing cavities with Berryman B12 Chemtool Solvent in accordance with RAM Aircraft Save-A-Turbo with Berryman's B12 Chemtool Recommended Instructions. After cleaning, prefilled bearing cavity and associated lines with engine oil. Lubricated wastegates with liquid penetrant oil.....(12) Changed left engine oil and filter. Installed 10 quarts of Phillips 20W-50 oil and Tempest AA48108-2 filter. Inspected removed filter. No contamination. Cleaned engine. Performed engine ground run. Operational and leak check satisfactory.....(14) Visually inspected left engine paper filter and determined it be to in serviceable condition for continued service. Replacement due at 4439.9 TAT per AD 84-26-02.....(19) Removed left engine fire bottle p/n: 30111102, s/n: 05227A1 and sent to Aerospace Turbine Rotables for hydrostatic test, recharge and squib replacement. Work accomplished under Aerospace Turbine Rotables Work Order No. WO81925. Reinstalled fire bottle after repair. Hydrostatic test and squib replacement due again 12-2020.....(23) Troubleshoot customer report that left engine will not boost to 41 inches. Found faulty turbo controller. Installed overhauled left engine turbo controller p/n: 470836-9018, s/n: F10139. Controller overhauled by RAM Aircraft under Work Order No. 002545. Operational check satisfactory.....(25) Troubleshoot customer report of oil leak on front of left engine. Removed left propeller. Installed new prop to crankshaft o'ring. Reinstalled propeller.....(27) Troubleshoot left engine low oil pressure during ground run up. Removed and inspected oil pressure regulating valve. Found plunger face worn. Installed new plunger and reinstalled regulating valve. Operational check satisfactory.

The article identified hereon was inspected in accordance with a 100 Hour Inspection, found to be in an airworthy condition and approved for return to service.

DATE: 1/27/2016

SIGNED:

J.R. Smith  
Certified Repair Station No. HO1R-199K

Work Order: 21081

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1372.8

Engine oil & filter change  
Phillips x/c 20/50, Tempest 48108  
Cleaned Caswell & TP 1705018  
Ran up OK

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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

ENGINE MODEL:  
TSIO-520-NB  
ENGINE S/N (L): 244816-R  
REG. NO: N155RP  
WORK ORDER: 21368



### Aerodyne Corporation

Repair Station No. HO1R-199K  
5198 West Military Highway  
Chesapeake, VA 23321 USA  
Phone: (757) 488-2898

DATE: 9/8/2016  
A/C TSN: 4264.2  
ENG TT (L): 1381.27  
TSMOH (L): 1381.5  
HOBBS: 4264.2

### Left Engine Entries

(1) Troubleshoot customer report of high oil consumption on left engine. Performed engine compression check: #1-78/80, #2-67/80, #3-68/80, #4-75/80, #5-66/80, #6-69/80. Inspected engine for external oil leaks. No oil leaks noted. At customer's request cleaned and inspected engine breather, oil separator and associated hoses and lines. No defects noted.

The article identified hereon was inspected and repaired in accordance with current Federal Aviation Regulations, was found to be airworthy for the work performed and is approved for return to service.

DATE: 9/8/2016

SIGNED:

*J.R. Smith*

Work Order: 21368

J.R. Smith  
Certified Repair Station No. HO1R-199K

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7 1409.5 1409.5 4292.5 Oil and filter change. Phillips X/c 20-50 11 qts, Tempest 48102 Filter Filter element inspected - no contaminants Glenn Corwell ATP 1705018 Ops Check OK

ENGINE MODEL:  
TSIO-520-NB  
ENGINE S/N (L): 244816-R  
REG. NO: N155RP  
WORK ORDER: 21536



### Aerodyne Corporation

Repair Station No. HO1R-199K  
5198 West Military Highway  
Chesapeake, VA 23321 USA  
Phone: (757) 488-2898

DATE: 3/1/2017  
A/C TSN: 4293.3  
ENG TT (L): 1410.37  
TSMOH (L): 1410.6  
HOBBS: 4293.3

### Left Engine Entries

(2) Completed left engine 100 hour inspection in accordance with the manufacturer's recommendations and a checklist conforming to Title 14 Code of Federal Regulations Chapter 43 Appendix D. Compression check: #1-78/80, #2-74/80, #3-70/80, #4-67/80, #5-68/80, #6-70/80. Checked ignition timing. Cleaned engine.....(7) Complied with AD 84-26-02 "Paper Induction Filters" by installation of new left and right engine air induction filters. Replacement due every 300 hours.....(8) Complied with AD 2000-01-16 "Detect and Correct Cracks in the Exhaust System" by inspection of the left and right engine exhaust systems in accordance with paragraphs (b), (c) and (e). Paragraph (b) due every 50 hours or 30 days whichever occurs later, paragraphs (c) and (e) due every 12 calendar months. Installed new right engine overboard tail pipe and support clamps.....(12) Complied with AD 2016-16-12 ECI Class 71 or 76 Cylinder Assembly Failures by inspection of the left and right engine cylinders. AD does not apply by ECI cylinders installed. Cylinders are chrome bore and the Casting # AEC65385 does not appear on any of the installed cylinders.....(16) Installed 12 new spark plugs RHB32E in left engine.....(24) Cleaned left and right engine turbo-charger bearing cavities with Berryman B12 Chemtool Solvent in accordance with RAM Aircraft Save-A-Turbo with Berryman's B12 Chemtool Recommended Instructions. After cleaning, prefilled bearing cavity and associated lines with engine oil. Lubricated wastegates with liquid penetrant oil.

The article identified hereon was inspected in accordance with a 100 Hour Inspection, found to be in an airworthy condition and approved for return to service.

DATE: 3/1/2017

SIGNED:

*J.R. Smith*

Work Order: 21536

J.R. Smith  
Certified Repair Station No. HO1R-199K

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TOTALS brought forward from previous page

ENGINE MODEL:  
TSIO-520-NB  
ENGINE S/N (L): 244816-R  
REG. NO: N155RP  
WORK ORDER: 21690

**Aerodyne Corporation**

Repair Station No. HO1R-199K  
5198 West Military Highway  
Chesapeake, VA 23321 USA  
Phone: (757) 488-2898

DATE: 7/19/2017  
A/C TSN: 4313.9  
ENG TT (L): 1430.97  
TSMOH (L): 1431.2  
HOBBS: 4313.9

**Left Engine Entries**

(1) Troubleshoot customer report of inoperative left engine alternator. Removed alternator for inspection. Found drive coupling to be faulty. Disassembled alternator and found brushes to be excessively worn. Installed overhauled drive coupling p/n: 646655, s/n: DRK117605. Coupling overhauled by Amtek Aero-Defense dba Drake Air under Work Order No. 485671. Installed new alternator brushes. Reassembled and installed alternator. Operational and leak check satisfactory.....(2) Troubleshoot customer report that the JPI CHT and EGT indications for the #1 cylinder on the left engine are blank. Found #1 cylinder EGT probe to be faulty. Installed new customer supplied EGT probe p/n: 2870. CHT probe serviceable. Found JPI display for left engine #1 cylinder to be inoperative. Removed JP Instruments EDM760-6C, s/n: 7088 from aircraft and sent to JP Instruments for repair. Reinstalled and operationally checked and found to be satisfactory.....(3) Changed left engine oil and filter. Installed 7 quarts of Phillips 20W-50 oil and Tempest AA48110-2 filter. Inspected removed filter. No contamination. Cleaned engine. Performed engine ground run. Operational and leak check satisfactory. Installed SAF-AIR F62 engine oil sump quick drain valve at customer's request.....(5) Repaired broken fiberglass on left engine cowling left nose bowl. Replaced damaged nut plates in the repair area. Installed new screws.

The article identified hereon was inspected and repaired in accordance with current Federal Aviation Regulations, was found to be airworthy for the work performed and is approved for return to service.

DATE: 7/19/2017

SIGNED:

J.R. Smith  
Certified Repair Station No. HO1R-199K

Work Order: 21690

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ENGINE MODEL:  
TSIO-520-NB  
ENGINE S/N (L): 244816-R  
REG. NO: N155RP  
WORK ORDER: 21983

**Aerodyne Corporation**

Repair Station No. HO1R-199K  
5198 West Military Highway  
Chesapeake, VA 23321 USA  
Phone: (757) 488-2898

DATE: 4/26/2018  
A/C TSN: 4361  
ENG TT (L): 1478.07  
TSMOH (L): 1478.3  
HOBBS: 4361

**Left Engine Entries**

(2) Completed left engine 100 hour inspection in accordance with the manufacturer's recommendations and a checklist conforming to Title 14 Code of Federal Regulations Chapter 43 Appendix D. Compression check: #1- /80, #2- /80, #3- /80, #4- /80, #5- /80, #6- /80. Checked ignition timing. Cleaned engine.....(18) Changed left engine oil and filter. Installed 10 quarts of Phillips 20W-50 oil and Tempest AA48108-2 filter. Inspected removed filter. No contamination. Cleaned engine. Performed engine ground run. Operational and leak check satisfactory.....(19) Inspected left engine air filter and found to be satisfactory for continued service. New filter installed 3-1-2017 at 4293.3 TAT. Replacement due by 4793.3 or sooner upon condition.....(20) Cleaned and adjusted left engine propeller brush block assembly.....(21) Removed left engine #4 cylinder due to low compression. Disassembled, cleaned and inspected cylinder and components. Installed new exhaust valve guide. Ground valve seats. Installed new intake and exhaust valves. Lapped valves to seats. Installed one new rocker shaft. Honed cylinder bore. Fitted and installed new piston rings. Installed new piston pin. Bench checked 80/80 psig. Installed cylinder with new gasket set.....(22) Installed new exhaust stud on #6 cylinder left engine.....(23) Installed new rocker box cover gaskets on cylinders 2 and 6 left engine.....(24) Removed, cleaned, inspected and reinstalled left engine air/oil separator.

The article identified hereon was inspected in accordance with a 100 Hour Inspection, found to be in an airworthy condition and approved for return to service.

DATE: 4/26/2018

SIGNED:

J.R. Smith  
Certified Repair Station No. HO1R-199K

Work Order: 21983

Printed by EBis 3 (datcomedia.com)

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
30 Dec 18	1525.05	1525.05	4406.5	Change oil & Filters 10 qts Phillips X/C, Tempest 8108-2 filters. Filters inspected, no contamination Jen Carwell ATP 1705018 Ops Check OK.

ENGINE MODEL:  
TSIO-520-NB  
ENGINE S/N (L): 244816-R  
REG. NO: N155RP  
WORK ORDER: 22342



### Aerodyne Corporation

Repair Station No. HO1R-199K  
5198 West Military Highway  
Chesapeake, VA 23321 USA  
Phone: (757) 488-2898

DATE: 5/15/2019  
A/C TSN: 4409  
ENG TT (L): 1526.07  
TSMOH (L): 1526.3  
HOBBS: 4409

### Left Engine Entries

(2) Completed left engine 100 hour inspection in accordance with the manufacturer's recommendations and a checklist conforming to Title 14 Code of Federal Regulations Chapter 43 Appendix D. Compression check: #1-76/80, #2-65/80, #3-65/80, #4-72/80, #5-24/80 (see Item #16), #6-65/80. Cleaned, gapped and tested spark plugs. Checked ignition timing. Cleaned engine.....(14) Changed left engine oil and filter. Installed 10 quarts of Phillips 20W-50 oil and Tempest AA48108-2 filter. Inspected removed filter. No contamination. Cleaned engine. Performed engine ground run. Operational and leak check satisfactory.....(15) Inspected left engine air induction filter and found to be satisfactory for continued service.....(16) Removed cylinder due to low compression 24/80 leak by exhaust valve. Disassembled, cleaned and inspected cylinder. Installed new exhaust valve guide. Ground intake valve and valve seats. Installed new exhaust valve. Lapped valves to seats. Assembled cylinder and painted. Bench check 80/80. Honed bore. Installed new piston, piston pin and piston rings. Reinstalled cylinder with new gasket set.....(17) Repaired left engine #4 cylinder bottom spark plug ignition lead.....(18) Removed, disassembled and inspected left engine magnetos Slick 6320, s/n: 99071444 (L) and Slick 6320, s/n: 99071445 (R). Magnetos found to be beyond economical repair. Installed overhauled left magneto Slick 6320, s/n: H-01382 and overhauled right magneto Slick 6320, s/n: H-01381. Repaired left magneto P-lead. Operational check satisfactory.....(28) Installed new customer supplied left engine #5 EGT probe p/n: 2870.

The article identified hereon was inspected in accordance with a 100 Hour Inspection, found to be in an airworthy condition and approved for return to service.

DATE: 5/15/2019

SIGNED: *J.R. Smith*

Work Order: 22342

J.R. Smith  
Certified Repair Station No. HO1R-199K

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ENGINE MODEL:  
TSIO-520-NB  
ENGINE S/N (L): 244816-R  
REG. NO: N155RP  
WORK ORDER: 22555

### Aerodyne Corporation

Repair Station No. HO1R-199K  
5198 West Military Highway  
Chesapeake, VA 23321 USA  
Phone: (757) 488-2898

DATE: 11/21/2019  
A/C TSN: 4427  
ENG TT (L): 1544.07  
TSMOH (L): 1544.3  
HOBBS: 4427

### Left Engine Entries

(1) Changed left engine oil and filter. Installed 10 quarts of Phillips 20W-50 oil and Tempest AA48108-2 filter. Inspected removed filter. No contamination. Cleaned engine. Performed engine ground run. Operational and leak check satisfactory.....(3) Adjusted left engine turbo controller to 41 in. hg.....(4) Complied with AD 2000-01-16 "Detect and Correct Cracks in the Exhaust System" by inspection of the left engine exhaust system in accordance with paragraphs (b), (c) and (e). Paragraph (b) due every 50 hours or 30 days whichever occurs later, paragraphs (c) and (e) due every 12 calendar months.

The article identified hereon was inspected and repaired in accordance with current Federal Aviation Regulations, was found to be airworthy for the work performed and is approved for return to service.

DATE: 11/21/2019

SIGNED: *Denise Eaton*

Work Order: 22555

Denise Eaton  
Certified Repair Station No. HO1R-199K

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SUB-TOTALS this 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
1 Feb 20				TOTALS brought forward from previous page
				Changed left engine oil & filter
				11 qts Phillips X-C 20-50, Tempest
				4108 Filter. Used Filter inspected
				no contaminants Run Up OK
				Glen F. Carwell ATP 1705018

ENGINE MODEL:  
TSIO-520-NB  
ENGINE S/N (L): 244816-R  
REG. NO: N155RP  
WORK ORDER: 22761

### Aerodyne Corporation

Repair Station No. HO1R-199K  
5198 West Military Highway  
Chesapeake, VA 23321 USA  
Phone: (757) 488-2898

DATE: 7/27/2020  
A/C TSN: 4479  
ENG TT (L): 1596.07  
TSMOH (L): 1596.3  
HOBBS: 4479

### Left Engine Entries

(2) Completed left engine 100 hour inspection in accordance with the manufacturer's recommendations and a checklist conforming to Title 14 Code of Federal Regulations Chapter 43 Appendix D. Compression check: #1-76/80, #2-60/80, #3-74/80, #4-76/80, #5-76/80, #6-60/80. Cleaned, gapped and tested spark plugs. Checked ignition timing. Cleaned engine.....(14) Changed left engine oil and filter. Installed 10 quarts of Phillips 20W-50 oil and Tempest AA48108-2 filter. Inspected removed filter. No contamination. Cleaned engine. Performed engine ground run. Operational and leak check satisfactory.....(15) Installed new spark plug, left engine top #6 cylinder.....(17) Removed, disassembled, cleaned and inspected left engine starter. Cleaned commutator and inspected brushes. Lubricated as necessary. Reinstalled starter. Operational check satisfactory.

The article identified hereon was inspected in accordance with a 100 Hour Inspection, found to be in an airworthy condition and approved for return to service.

DATE: 7/27/2020

SIGNED:

*J.R. Smith*

Work Order: 22761

J.R. Smith  
Certified Repair Station No. HO1R-199K

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30 Dec 20	4521	Changed left engine oil & filter
		11 qts Phillips X/C 20-50. Tempest
		4108 Filter. Used Filter inspected
		no contaminants. Operational &
		leak check satisfactory.
		Glen F. Carwell ATP 1705018

SUB-TOTALS this page

TSIO-520-NB

ENGINE S/N (L): 244816-R

REG. NO: N155RP

WORK ORDER: 23164

## Aerodyne Corporation

Repair Station No. HO1R-199K

5198 West Military Highway

Chesapeake, VA 23321 USA

Phone: (757) 488-2898

DATE: 9/1/2021

A/C TSN: 4550.1

ENG TT (L): 1667.17

TSMOH (L): 1667.4

HOBBS: 4550.1

### Left Engine Entries

(2) Completed left engine 100 hour inspection in accordance with the manufacturer's recommendations and a checklist conforming to Title 14 Code of Federal Regulations Chapter 43 Appendix D. Compression check: #1-78/80, #2-73/80, #3-78/80, #4-73/80, #5-70/80, #6- 71/80. Cleaned, gapped and tested spark plugs. Checked ignition timing. Cleaned engine.....(15) Installed new lower spark plug cylinder #4, left engine.....(18) Changed left engine oil and filter. Installed 10 quarts of Phillips 20W-50 oil and Tempest AA48108-2 filter. Inspected removed filter. No contamination. Cleaned engine. Performed engine ground run. Operational and leak check satisfactory.....(20) Installed new left engine air induction filter assembly P12-8156. Next filter change due Aug 2024 or 5050.0 Hobbs.

The article identified hereon was inspected in accordance with a 100 Hour Inspection, found to be in an airworthy condition and approved for return to service.

DATE: 9/1/2021

**SIGNED:**

Denise Eaton

Certified Repair Station No. HO1R-199K

Work Order: 23164

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