

DATE

ENGINE MODEL:
TIO-54 AE2A
ENGINE S/N: RL6575-61A
REG. NO. N789MD
WORK ORDER:
3880-03-2015

North American Flight Services

Repair Station No. N0MR725J
Ballston Spa, NY 12020
Phone: [REDACTED]

DATE: 01 April, 2015
A/C TSN: 3879.6
ENG TT: 1328.1
TSMOH: 700.9
HOBBS: 3879.6

WORK PERFORMED --
NAME OF PERSON PERFORMING
[REDACTED]

2015

Engine Entries

ACCOMPLISHED ENGINE ANNUAL INSPECTION. COMPRESSIONS ARE CYL#1 75/80, CYL #2 72/80, CYL#3 74/80, CYL#4 72/80 CYL#5 75/80, CYL#6 75/80. CLEANED, GAPPED AND ROTATED PLUGS. DRAINED OIL. REMOVED FILTER AND CUT OPEN, NO DEBRIS NOTED. REMOVED AND CLEANED OIL SCREEN, REINSTALLED. ADDED 12 QUARTS AEROSHELL 15W50. ENGINE OPS CHECK AND LEAK CHECK GOOD.
ACCOMPLISHED AD SEARCH THRU 3/13/2015.
ACCOMPLISHED PIPER SI 601 AND 602. REMOVED UPPER VACUUM PUMP P/N AA441CC-17, S/N 65040 AND LOWER VACUUM PUMP P/N 442CW-6, S/N 64280. INSTALLED OVERHAULED UPPER VACUUM PUMP P/N 441CC-17, S/N 162063 AND OVERHAULED LOWER VACUUM PUMP P/N 442CW-6, S/N 162678. OPS CHECK GOOD. NEXT DUE IN 600 HRS @ 4579 HOBBS.
STOP DRILLED CRACK ON LOWER RH SIDE OF AIR INTAKE AS REQUIRED.
COMPLIED WITH AD 2011-06-10 BY REMOVING T.I.T. PROBE (P/N 686-216, S/N 1202) AND INSTALLING NEW T.I.T. PROBE (P/N 686-216, S/N 1433). OPERATIONAL CHECK SATISFACTORY. NEXT DUE IN 250 HOURS AT 4229.6 HOURS.
ACCOMPLISHED AD 2011-26-04 FUEL INJECTOR FUEL LINE INSPECTION STEP H. NO DEFECTS NOTED. NEXT DUE IN 100 HRS @ 4079 HRS.
REVIEWED AD 2015-02-07 PROP GOVERNOR SET SCREW THREAD LOCK APPLICATION. THIS AD IS DUE AT OVERHAUL OR ANYTIME SET SCREW IS REMOVED. NO ACTION REQUIRED AT THIS TIME. COMPLIED WITH ENGINE MOUNT INSPECTION PER PIPER SERVICE BULLETIN 1103E. NO CRACKS FOUND. NEXT DUE AT 4079.6 HOURS OR WHEN NOSE LANDING GEAR IS SUBJECTED TO EXCESSIVE LOADS OR IMPROPER OPERATION.
ACCOMPLISHED LYCOMING SB 531C TURBOCHARGER AND TAILPIPE INSPECTION. NO DEFECTS NOTED. NEXT DUE IN 12 MONTHS OR 250 HRS WHICHEVER COMES FIRST.
TIGHTENED ALL FUEL INJECTOR LINES FITTINGS. CLEANED EVIDENCE OF A PREVIOUS LEAK FROM CYL# 1, 3 AND 4. LEAK CHECK GOOD.
ACCOMPLISHED MANDATORY SERVICE BULLETIN 521 NEXT DUE AT SCHEDULED MAINTENANCE EVENT NOT TO EXCEED 50 HR OF OPERATION
REMOVED OIL COOLER. PURGED OIL COOLER WITH ALCOHOL AND AIR DRIED WITH SHOP AIR
REINSTALLED OIL COOLER. LEAK CHECK AND OPS CHECK GOOD.

I CERTIFY THIS ENGINE HAS BEEN INSPECTED IAW AN ANNUAL INSPECTION AND HAS BEEN DETERMINED TO BE IN AIRWORTHY CONDITION AND IS APPROVED FOR RETURN TO SERVICE.

DATE: 01 April, 2015

SIGNED [REDACTED]

Brian Strange
Certified

Work Order: 3880-03-2015

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ENGINE MODEL: TIO-54C
ENGINE S/N:
REG. NO: N786MD
WORK ORDER:
3663-07-2014

North American Flight Services

Repair Station No. N0MR725J
405 Greenfield Avenue
Ballston Spa, NY 12020
Phone: 518-885-5470

DATE: 31 July, 2014
A/C TSN: 3838
ENG TT: 49.2
TSMOH:
HOBBS: 3938

Engine Entries

REMOVED FAILED SKY-TEC STARTER (P/N 149-NL)(S/N FN-061331) AND REPLACED WITH REBUILT SKY-TEC STARTER (P/N 149-NL)(S/N FN-380503) OPS CHECK GOOD. ALL WORK DONE IAW PA-46-350 M/M

The aircraft, airframe, aircraft engine, propeller, or appliance identified above was repaired and / or inspected in accordance with current regulations of the Federal Aviation Administration and the aircraft/engine/ propeller/appliance manufacturers maintenance manual instructions and procedures. This aircraft is approved for return to service with respect to the above work performed. Further details are on file at this repair station under the work order number reflected on this log entry.

DATE: 31 July, 2014

SIGNED [REDACTED]

Brian Strange
Certified Repair Station No. N0MR725J

Work Order: 3663-07-2014

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ENGINE MODEL: TIO-54D
ENGINE S/N:
REG. NO: N786MD
WORK ORDER:
3679-08-2014

North American Flight Services

Repair Station No. N0MR725J
405 Greenfield Avenue
Ballston Spa, NY 12020
Phone: 518-885-5470

DATE: 14 August, 2014
A/C TSN: 3955.2
ENG TT: 68.4
TSMOH:
HOBBS: 3955.2

Engine Entries

REMOVED OIL PRESSURE RELIEF VALVE AND INSTALLED A NEW OIL PRESSURE RELIEF VALVE P/N 76159 IAW LYCOMING TIO-54D OVERHAUL MANUAL. ADJUSTED OIL PRESSURE TO WITHIN LIMITS. OPERATIONAL CHECK SATISFACTORY.

The aircraft, airframe, aircraft engine, propeller, or appliance identified above was repaired and / or inspected in accordance with current regulations of the Federal Aviation Administration and the aircraft/engine/ propeller/appliance manufacturers maintenance manual instructions and procedures. This aircraft is approved for return to service with respect to the above work performed. Further details are on file at this repair station under the work order number reflected on this log entry.

DATE: 14 August, 2014

SIGNED [REDACTED]

Brian Strange
Certified Repair Station No. N0MR725J

Work Order: 3679-08-2014

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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
2015	ENGINE MODEL: TIO-540-AE2A ENGINE S/N: RL6575-61A REG. NO: N786MD WORK ORDER: 4034-08-2015	North American Flight Services Repair Station No. NOMR725J Ballston Spa, NY 12020 Phone: [REDACTED]		DATE: 04 August, 2015 A/C TSN: 4010.9 ENG TT: 1359.4 TSMOH: 732.2 HOBBS: 4010.9
	Engine Entries			
	DRAINED OIL, REMOVED OIL FILTER AND CUT OPEN, NO DEBRIS NOTED. INSTALLED NEW CH48103-1 OIL FILTER. ADDED 10 QUARTS OF AEROSHELL 15W50 OIL. IAW PA46-35G M/M 12-20-00. OPS AND LEAK CHECK GOOD.			
	The aircraft, airframe, aircraft engine, propeller, or appliance identified above was repaired and / or inspected in accordance with current regulations of the Federal Aviation Administration and the aircraft/engine/ propeller/appliance manufacturers maintenance manual instructions and procedures. This aircraft is approved for return to service with respect to the above work performed. Further details are on file at this repair station under the work order number reflected on this log entry.			
	DATE: 04 August, 2015	SIGNED [REDACTED]		Work Order: 4034-08-2015
		Brian Strange Certified Repair Station No. NOMR725J		Printed by EBis 3 (datcomedia.com)
9-21-2015	HM 4032.4 hrs	Changed oil and filter, checked filter for metals and checked suction screen no defects noted, serviced engine with 16 Qts Aeroshell 15W50 multigrade oil. Checked cylinder compressions, lowest cylinder 79/80. Performed engine runup and functional checks. Operations are satisfactory		
	Advanced Aviation 5 Aero Plaza New Century, KS 66031 Phone: 913-768-1500			
	Date: September 29, 2015	Hobbs: 4032.4	N736MD	Engine Logbook
	Removed left hand turbocharger and Installed new turbocharger P/N: 466642-9005 S/N: H-SGR00189 Using new gaskets. Performed post run for leak and operational check with no defect noted.			
			Shawn Walker	
2016	ENGINE MODEL: TIO-540-AE2A ENGINE S/N: RL6575-61A REG. NO: N786MD WORK ORDER: 1114	CFD Integration, LLC dba CFDI Aero Denton, TX 76207 Phone: [REDACTED]		DATE: 7/1/2016 A/C TSN: 4103.7 ENG TT: 1452.2 TSMOH: 825 HOBBS: 4103.7
	Engine Entries			
	(2) This engine was inspected in accordance with FAR 43 appendix d. The following maintenance was performed.... (6) Drained oil, removed, cut and inspected filter for metal. None found at this time. Installed new oil filter P/N CH48103-1 and serviced with 12 quarts of Aeroshell 100W Plus oil. Ran engine, ops and leak checked good at this time.... (7) Removed, cleaned, gapped, tested and installed all spark plugs.... (8) Removed cleaned and reinstalled all fuel nozzles with new o-rings P/N 951391 and upper deck hoses P/N LW18724.... (76) Complied with AD2015-19-07 (Effective 11/03/2015) Lycoming Fuel Injector line inspection in accordance with Lycoming MSB 342G. Checks good. Due again in 110 hours, after any fuel line or clamp disturbance or engine overhaul.... (77) Complied with Lycoming SB 521 exhaust inspection. Checked good at this time. Due again next annual or 250 hours, whichever occurs first.... (78) Complied with Lycoming SB531C By inspection of the right and left turbochargers. Both checked good at this time. Due again next annual or 250 hours, whichever occurs first.... (79) Complied with Lycoming SB 489A by inspection the oil sump and screen for any rivets or FOD. None found. Due again next oil change.... (80) Complied with Lycoming SI 1492D Piston pin wear by checking the screen and filter for any aluminum. None found. Due next oil change.... (100) Removed all 6 cylinders. Installed 6 new Lycoming cylinder kit assemblies P/N 05K21262 Checked all ring gaps and valve clearances. Reassembled with all new gaskets and seals.... (103) Removed and installed left intercooler after overhaul by American cooler.... (107) I certify this engine has been inspected in accordance with a 100 hour/annual inspection and has been determined to be in an airworthy condition at this time. No other new or recurring AD's due at this time.			
	DATE: 7/1/2016			Work Order: 1114
				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
2016				ENGINE MODEL: TIO-540-AE2A ENGINE S/N: RL6575-61A REG. NO: N786MD WORK ORDER: 1247 CFD Integration, LLC dba CFDI Aero Denton, TX 76207 Phone: 940-442-5232 DATE: 9/9/2016 A/C TSN: 4144.7 ENG TT: 1493.2 TSMOH: 866 HOBBS: 4144.7 Engine Entries (4) Drained oil, removed, cut and inspected filter for metal. None found at this time. Installed new oil filter P/N CH48103-1 and serviced with 12 quarts of Aeroshell 100W Plus oil. Ran engine, ops and leak checked good at this time.... (5) Performed differential compression test. Compressions are as follows: 1. 76/80 2. 76/80 3. 77/80 4. 74/80 5. 77/80 6. 77/80 DATE: 9/9/2016 SIGNATURE: [Redacted] Work Order: 1247 Tim [Redacted] Printed by EBis 3 (datcomedia.com)
				ENGINE MODEL: TIO-540-AE2A ENGINE S/N: RL6575-61A REG. NO: N786MD WORK ORDER: 1304 CFD Integration, LLC dba CFDI Aero Denton, TX 76207 Phone: 940-442-5232 DATE: 10/21/2016 A/C TSN: 4182.2 ENG TT: 1530.7 TSMOH: 903.5 HOBBS: 4182.2 Engine Entries (1) Performed compression check after engine run up. Compressions as follows: 1)74/80 2)72/80 3)72/80 4)76/80 5)74/80 6)74/80. Removed tail pipes, pressure tested and inspected right and left turbochargers, exhaust and intake system for leaks.... (3) Removed turbo controller P/N 48E21297E, S/N DAN6452. Installed overhauled controller P/N 481008-32, S/N ALN23742. Adjusted IAW current Piper and Lycoming instructions. Ops and leak checked good at this time.... (4) Removed exhaust stacks on cylinders 1 and 3. Installed with new gaskets P/N 77611. Torqued and safety wired all clamps and hardware. DATE: 10/21/2016 SIGNATURE: [Redacted] Work Order: 1304 Tim [Redacted] Printed by EBis 3 (datcomedia.com)

 Metroplex Aircraft Inspections [Redacted] Addison, TX 75001	AIRCRAFT MAKE: PIPER AIRCRAFT MODEL: PA46-350P SERIAL NUMBER: 4636156 REGISTRATION: N786MD		Work Order#: 6856 Date: 11-23-2016
	HOBBS: 4217.7	TACH: N/A	ACFT TT: N/A

ENGINE LOG BOOK ENTRY

- | No. | DESCRIPTION |
|-----|--|
| 1. | CHANGED OIL AND FILTER. 9 QTS A/S 100W PLUS ADDED. FILTER P/N CH48103-1. |
| 2. | PERFORMED GROUND RUN. LEAK CHECKS GOOD. |

WORK INSPECTED BY: [Redacted] TSCH CERTIFICATE #: A & P 2813809 IA

 Metroplex Aircraft Inspections [Redacted] Addison, TX 75001	AIRCRAFT MAKE: PIPER AIRCRAFT MODEL: PA46-350P SERIAL NUMBER: 4636156 REGISTRATION: N786MD		Work Order#: 6946 Date: 04-27-2017
	HOBBS: 4283.7	TACH: N/A	ACFT TT: N/A

ENGINE LOG BOOK ENTRY

- | No. | DESCRIPTION |
|-----|--|
| 1. | CHANGED OIL AND FILTER. 9 QTS A/S 100W PLUS ADDED. FILTER P/N CH48103-1. |
| 2. | PERFORMED GROUND RUN. LEAK CHECKS GOOD. |

WORK INSPECTED [Redacted] FRITSCH CERTIFICATE #: A & P [Redacted]