

ENGINE LOG BOOK



 **N230WA**
Continental IO360ES25B
S/N: 1007857
Engine Logbook

Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hours	Min	Hours	Min	

ENGINE MODEL IO-360ES
 ENGINE S/N 1007857
 REG NO N230WA
 WORK ORDER 07548-08-2013

US Flight Aircraft Maintenance

1 Wallingford Rd
 Hangar 5 & 6
 Danbury, CT 06810 USA
 Phone: 914-288-8088

DATE: 07 August, 2013
 A/C TSN: 139.8
 ENG TT: 139.8
 FLIGHTTIME: 102.6

Engine Entries

2 C/W CIRRUS AIRCRAFT 100HR/ANNUAL INSPECTION OF ENGINE.... Engine Inspected using Cirrus SR-20 Aircraft 100hr/Annual maintenance manual inspection checklist. Performed satisfactory pre-inspection run up IAW CDC SR-22 AMM 5-30.

Performed cylinder differential pressure test; results as follows, # 1)77, #2)77, # 3)77, #4)77, #5) 77, #6) 78.

Drained engine oil, serviced engine with 7 Qts Phillips X/C 20/50 oil. Add 1 bottle Avblend additive.

Cleaned rotated and secured spark plugs.

All fuel Injectors ultrasonic cleaned and installed.

Performed satisfactory ground functional checks.

AD's & MSB's ck thru 8-2013.

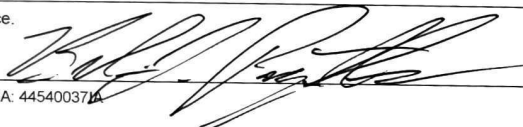
I certify this ENGINE has been inspected in accordance with an ANNUAL inspection and has been determined to be in airworthy condition.

I certify that this engine has been approved for return to service.

DATE: 07 August, 2013

SIGNED:

Bernard Paquette, IA: 44540037IA



Work Order: 07548-08-2013

Printed by EBis 3 (datcomedia.com)

ENGINE MODEL IO-360ES
 ENGINE S/N 1007857
 REG NO N230WA
 WORK ORDER: 07569-08-2013

US Flight Aircraft Maintenance

1 Wallingford Rd
 Hangar 5 & 6
 Danbury, CT 06810 USA
 Phone: 914-288-8088

DATE: 28 August, 2013
 A/C TSN: 174.4
 ENG TT: 174.4
 FLIGHTTIME: 129.7

Engine Entries

1 C/W 25 HR OIL CHANGE WITH FILTER.... Engine warmed to operating temperatures, Removed upper and lower engine cowlings and drained oil. Oil sample taken and filter sent out for analysis.

Torque and secured new AA48108-2 filter.

Serviced engine with 7 qts. Phillips 20W-50W X/C oil. Add 1 bottle Avblend to engine.

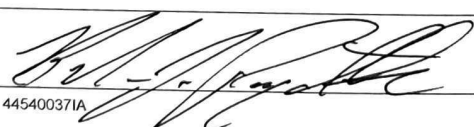
Performed ground run, no leaks noted.

The work performed has been approved for return to service.

DATE: 28 August, 2013

SIGNED:

Bernard Paquette, A&P: 44540037IA



Work Order: 07569-08-2013

Printed by EBis 3 (datcomedia.com)

ENGINE MODEL IO-360ES
 ENGINE S/N 1007857
 REG NO N230WA
 WORK ORDER
 07545-07-2013

US Flight Aircraft Maintenance

1 Wallingford Rd
 Hangar 5 & 6
 Danbury, CT 06810 USA
 Phone: 914-288-8088

DATE: 14 October 2013
 A/C TSN: 241.1
 ENG TT: 241.1
 FLIGHTTIME: 180.2

Engine Entries

PERFORM OIL CHANGE SERVICE... Engine warmed to operating temperatures, drained oil, Take oil sample for analysis. Remove filter and send for inspection to avlabs. Install and Torque new AA48108-2 filter.

Serviced engine with 7 qts Phillips X/C 20w50 oil. Add 1-bottle avblend.

Performed ground run, no leaks noted.

The work performed has been approved for return to service

DATE: 14 October, 2013

SIGNED:

Bernard Paquette, A&P: 44540037IA



Work-Order: 07545-07-2013

Printed by EBis 3 (datcomedia.com)

Date	Total Time		Time Since Last Overhaul		<i>Engine Service and Maintenance Record</i>
	Hours	Min	Hours	Min	
Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins					
Carried forward →					

ENGINE MODEL: IO-360ES
ENGINE S/N: 1007857
REG. NO. N230WA
WORK ORDER: 07607-10-2013

US Flight Aircraft Maintenance

1 Wallingford Rd
Hangar 5 & 6
Danbury, CT 06810 USA
Phone: 914-288-8088

DATE: 24 October, 2013
A/C TSN: 273.4
ENG TT: 273.4
FLIGHTTIME: 204.9

Engine Entries

- 2 C/W CIRRUS AIRCRAFT 100HR INSPECTION OF ENGINE.... Engine Inspected using Cirrus SR-20 Aircraft 100hr maintenance manual inspection checklist, Performed satisfactory pre-inspection run up IAW CDC SR-22 AMM 5-30.

Performed cylinder differential pressure test; results as follows # 1)78, #2)77, # 3)77, #4)77, #5) 77, #6) 77.

Drained engine oil, serviced engine with 7 Qts Phillips X/C 20/50 oil.

Cleaned rotated and secured spark plugs.

Ultrasonic cleaned #2, #6, & #3 fuel injectors due to stains.
Installed new air filter element. due ea 200 hrs.

AD's & MSR's ck thru 10-24-13

I certify this ENGINE has been inspected in accordance with an 100 HR inspection and has been determined to be in airworthy condition.

The work performed has been approved for return to service.

DATE: 24 October, 2013

SIGNED:



Bernard Paquette, A&P: 445400371A

Work Order: 07607-10-2013

Printed by EBis 3 (datcomedia.com)

ENGINE MODEL: IO-360ES
ENGINE S/N: 1007857
REG. NO: N230WA
WORK ORDER:
07632-12-2013

US Flight Aircraft Maintenance

1 Wallingford Rd
Hangar 5 & 6
Danbury, CT 06810 USA
Phone: 914-288-8088

DATE: 04 December, 2013
A/C TSN: 318.9
ENG TT: 318.9
FLIGHTTIME: 239

Engine Entries

- (1) ENGINE RPM 2750 AT TAKE OFF.... Adjusted propeller govenor to achieve 2600 Rpm @ full static power and safety wire.

Test flight checks airworthy.

The work performed has been approved for return to service.

DATE: 04 December, 2013

SIGNED:



Bernard Paquette, A&P: 445400371A

Work Order: 07632-12-2013

Printed by EBis 3 (datcomedia.com)

ENGINE MODEL: IO-360ES
ENGINE S/N: 1007857
REG. NO: N230WA
WORK ORDER: 07681-03-2014

US Flight Aircraft Maintenance

1 Wallingford Rd
Hangar 5 & 6
Danbury, CT 06810 USA
Phone: 914-288-8088

DATE: 06 March, 2014
A/C TSN: 403.2
ENG TT: 403.2
FLIGHTTIME: 300.6

Log Entries

- 1 #6 EXHAUST STACK BRACKET ELONGATED... Loosen and remove nuts for #2, #4 & #6 Exhaust stacks.

Remove Collector to #6 stack bolt.

Removed stack for repair.

Exhaust Stack bolt flange welded with steel on both sides of elongated hole and drilled per AC43:13 1B 4-75 (4-57).

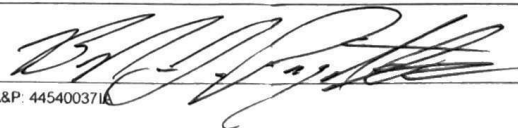
Installed repaired #6 exhaust stack and existing stacks with new exhaust gaskets and new bolt.

Adjusted tailpipe to alleviate twisting tension on collector to #6 stack bolt.

The work performed has been approved for return to service.

DATE: 06 March, 2014

SIGNED:



Bernard Paquette, A&P: 445400371A

Work Order: 07681-03-2014

Printed by EBis 3 (datcomedia.com)

Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record
	Hours	Min	Hours	Min	
Carried forward →					Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins

ENGINE MODEL: IO-360ES
 ENGINE S/N: 1007857
 REG. NO: N230WA
 WORK ORDER: 07682-03-2014

US Flight Aircraft Maintenance

1 Wallingford Rd
 Hangar 5 & 6
 Danbury, CT 06810 USA
 Phone: 914-288-8088

DATE: 06 March, 2014
 A/C TSN: 403.2
 ENG TT: 403.2
 FLIGHTTIME: 300.6

Engine Entries

- 2 C/W CIRRUS AIRCRAFT 100HR INSPECTION OF ENGINE... Engine Inspected using Cirrus SR-20 Aircraft 100hr maintenance manual inspection checklist. Performed satisfactory pre-inspection run up IAW CDC SR-22 AMM 5-30.
- Performed cylinder differential pressure test; results as follows, # 1)78, #2)77, # 3)78, #4)77, #5) 77, #6) 78.
- Drained engine oil, serviced engine with 6 Qts Phillips X/C 20/50 oil, 1 can Avblend added.
- Cleaned rotated and secured (6) spark plugs.
- Replaced 6, installing new Tempest URHM38E spark plugs.
- Ultrasonic cleaned all fuel injectors due to stains.
- AD's & MSB's ck thru 3-6-14.

I certify this ENGINE has been inspected in accordance with an 100 HR inspection and has been determined to be in airworthy condition.

I certify that this engine has been approved for return to service.

DATE: 06 March, 2014

SIGNED:



Bernard Paquette, A&P: 445400371A

Work Order: 07682-03-2014

Printed by EBis 3 (datcomedia.com)

ENGINE MODEL: IO-360ES
 ENGINE S/N: 1007857
 REG. NO: N230WA
 WORK ORDER: 07709-04-2014

US Flight Aircraft Maintenance

1 Wallingford Rd
 Hangar 5 & 6
 Danbury, CT 06810 USA
 Phone: 914-288-8088

DATE: 29 April, 2014
 A/C TSN: 468.8
 ENG TT: 468.8
 FLIGHTTIME: 347.1

Engine Entries

- 1 C/W OIL CHANGE SERVICE... Engine warmed to operating temperatures, drained oil, Take oil sample for analysis.
- Removed Filer and ship to Avlabs for inspection..
- Install and Torque new AA48108-2 filter.
- Serviced engine with 6 qts. Phillips X/C 20w50 oil. Add 1-bottle avblend.
- Performed ground run, no leaks noted.

The work performed has been approved for return to service.

DATE: 29 April, 2014

SIGNED:



Bernard Paquette, A&P: 445400371A

Work Order: 07709-04-2014

Printed by EBis 3 (datcomedia.com)

Date	Total Time		Time Since Last Overhaul		<i>Engine Service and Maintenance Record</i> Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hours	Min	Hours	Min	
Carried forward →					

ENGINE MODEL: IO-360ES
ENGINE S/N: 1007857
REG. NO. N230WA
WORK ORDER: 07737-06-2014



US Flight Aircraft Maintenance
1 Wallingford Rd
Hangar 5 & 6
Danbury, CT 06810 USA
Phone: 914-288-8088

DATE: 19 June, 2014
A/C TSN: 5389
ENG TT: 5389
FLIGHTTIME: 4014

Engine Entries

2 C/W CIRRUS AIRCRAFT 100HR/ANNUAL INSPECTION OF ENGINE.... Engine Inspected using Cirrus SR-20 Aircraft 100hr/Annual maintenance manual inspection checklist, Performed satisfactory pre-inspection run up IAW CDC SR-22 AMM 5-30.

Performed cylinder differential pressure test; results as follows, #1)78, #2)76, #3)78, #4)76, #5) 76, #6) 75.

Drained engine oil, removed and cut open filter. No abnormal debris noted. Secured new AA48108-2 filter and serviced engine with 8 Qts Phillips 100AD oil. Cleaned rotated and secured spark plugs. Performed satisfactory ground functional checks.

AD's & MSB's ck thru biweekly 2014-12/13.

I certify this ENGINE has been inspected in accordance with an ANNUAL inspection and has been determined to be in airworthy condition.

I certify that this engine has been approved for return to service.

DATE: 19 June, 2014

SIGNED:

[Signature]

Work Order: 07737-06-2014

SCOTT SPLETZER, IA: 3402681

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Date	Hours	Min	Hours	Min	Description
8-15-14	450.	7			C/W 50HZ Oil change service DRAWD oil, extracted sample FOR ANALYSIS, INSTALL NEW FILTER Part # AA 48108-2, SERVICED ENGINE with 6 Qts Phillips 100AD and 1pt AVBLEND. <i>[Signature]</i> #3756764

Date	Total Time		Time Since Last Overhaul		<i>Engine Service and Maintenance Record</i>
	Hours	Min	Hours	Min	
Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins					

ENGINE MODEL 10-360ES
ENGINE S/N 1007857
REG NO N230WA
WORK ORDER 07827-10-2014

US Flight Aircraft Maintenance

1 Wallingford Rd
Hangar 5 & 6
Danbury, CT 06810 USA
Phone: 914-288-8088

DATE: 10 October, 2014
A/C TSN: 671.8
ENG TT: 671.8
FLIGHTTIME: 500.7

Engine Entries

3 LEFT MAGNETO DUE FOR 500HR DISASSEMBLY AND INSPECTION AS PER TCM CONTINUED AIRWORTHINESS.... Removed left magneto P/N 10-500556-3, S/N D12LA125.

Disassembled magneto and found oil seal leaking into mag.

500 Hour inspection C/W on left magneto P/N 10-500556-3, S/N D12LA125, I/A/W CMI Service Support Manual Section 6-2.3. Impulse coupling inspected I/A/W CMI Service Support Manual Section 6-2.2 and SB 645. Installed new oil seal P/N AB-357592. Magneto installed in left position using new SA 537450 Gasket. Mag to engine timing set to 24 degrees BTDC.

Test run. No defects noted.

Due again at 1000.7 hours TT.

4 RIGHT MAGNETO DUE FOR 500HR DISASSEMBLY AND INSPECTION AS PER TCM CONTINUED AIRWORTHINESS.... Removed right magneto P/N 10-500556-3, S/N D12LA127.

Disassembled magneto and found oil seal leaking into mag.

500 Hour inspection C/W on right magneto P/N 10-500556-3, S/N D12LA127 I/A/W CMI Service Support Manual Section 6-2.3. Impulse coupling inspected I/A/W CMI Service Support Manual Section 6-2.2 and SB 645. Installed new oil seal P/N AB-357592. Magneto installed in right position using new SA 537450 Gasket. Mag to engine timing set to 24 degrees BTDC.

Test run. No defects noted.

Due again at 1000.7 hours TT.

6 6 SPARK PLUGS ARE WORN BEYOND LIMITS... Installed 6 new URHM38E spark plugs.

9 #2, #3, AND #4 FUEL INJECTOR NOZZLES SHOW SIGNS OF STAINING... Cleaned all 6 fuel injectors using ultra sonic method. Secured and torqued.

Performed leak check; found none.

All work performed IAW TCM SID 05-7. and GAMI IP-2001-02.

The work performed has been approved for return to service.

DATE: 10 October, 2014

SIGNED:



Bernard Paquette, A&P: 445400371A

Work Order: 07827-10-2014

Printed by EBis 3 (datcomedia.com)

ENGINE MODEL 10-360ES
ENGINE S/N 1007857
REG NO N230WA
WORK ORDER 07826-10-2014

US Flight Aircraft Maintenance

1 Wallingford Rd
Hangar 5 & 6
Danbury, CT 06810 USA
Phone: 914-288-8088

DATE: 10 October, 2014
A/C TSN: 671.8
ENG TT: 671.8
FLIGHTTIME: 500.7

Engine Entries

2 C/W CIRRUS AIRCRAFT 100HR/ANNUAL INSPECTION OF ENGINE.... Engine Inspected using Cirrus SR-20 Aircraft 100hr/Annual maintenance manual inspection checklist, Performed satisfactory pre-inspection run up IAW CDC SR-22 AMM 5-30.

Performed cylinder differential pressure test; results as follows, # 1)78, #2)78, # 3)76, #4)76, #5) 76, #6) 74.

Drained engine oil, removed and cut open filter. No abnormal debris noted. Secured new AA48108-2 filter.

Serviced engine with 6 Qts Phillips 20W-50W X/C oil. 1 pint Avblend added.

Cleaned rotated and secured spark plugs. Performed satisfactory ground functional checks.

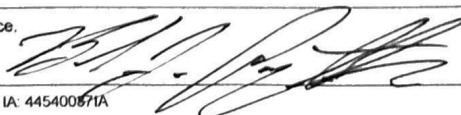
AD's & MSB's ck thru biweekly 2014-10.

I certify this ENGINE has been inspected in accordance with an ANNUAL inspection and has been determined to be in airworthy condition

I certify that this engine has been approved for return to service.

DATE: 10 October, 2014


SIGNED:



Bernard Paquette, IA: 445400571A

Work Order: 07826-10-2014

Printed by EBis 3 (datcomedia.com)

Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hours	Min	Hours	Min	
Carried forward	→				
8-6-15	548	8			C/W 50 HR OIL CHANGE SERVICE DRAWD OIL, EXTRACTED SAMPLE, FOR ANALYSIS, INSTALLED NEW FILTER PART #AA48108-02, SERVICED ENGINE WITH 6 QTS PHILLIPS 20W/50W AN(2) P+ AVBLEND.  3756784

ENGINE MODEL: IO-360ES
ENGINE S/N: 1007857
REG. NO: N230WA
WORK ORDER:
07902-03-2015

US Flight Aircraft Maintenance

1 Wallingford Rd
Hangar 5
Danbury, CT 06810 USA
Phone: 914-288-8088

DATE: 01 May, 2015
A/C TSN: 769.8
ENG TT: 571.5
HOBBS: 769.8

Engine Entries

(1) ENGINE NOT PRODUCING FULL RPM ON TAKE-OFF... Adjusted propeller governor to achieve 2700 Rpm @ full static power and safety wire.

Test flight checks airworthy.

The work performed has been approved for return to service.

DATE: 01 May, 2015

SIGNED: 
SCOTT SPLETZER, A&P: 3402681

Work Order: 07902-03-2015

Printed by EBis 3 (datcomedia.com)

ENGINE MODEL: IO-360ES
ENGINE S/N: 1007857
REG. NO: N230WA
WORK ORDER: 07939-06-2015

US Flight Aircraft Maintenance

1 Wallingford Rd
Hangar 5
Danbury, CT 06810 USA
Phone: 914-288-8088

DATE: 17 June, 2015
A/C TSN: 810.4
ENG TT: 810.4
FLIGHTTIME: 600.4

Engine Entries

2 C/W CIRRUS AIRCRAFT 100HR/ANNUAL INSPECTION OF ENGINE.... Engine Inspected using Cirrus SR-20 Aircraft 100hr/Annual maintenance manual inspection checklist, Performed satisfactory pre-inspection run up IAW CDC SR-22 AMM 5-30.

Performed cylinder differential pressure test; results as follows, # 1)76, #2)73, # 3)75, #4)72, #5) 75, #6) 74.

Drained engine oil, removed and cut open filter. No abnormal debris noted. Secured new AA48108-2 filter.

Serviced engine with 6 Qts Phillips 20W-50W X/C oil. 1 pint Avblend added.

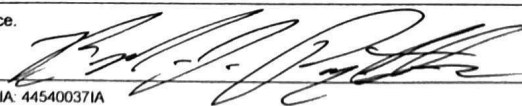
Cleaned rotated and secured spark plugs. Performed satisfactory ground functional checks.

AD's & MSB's ck thru biweekly 2015-6.

I certify this ENGINE has been inspected in accordance with an ANNUAL inspection and has been determined to be in airworthy condition

I certify that this engine has been approved for return to service.

DATE: 17 June, 2015

SIGNED: 
Bernard Paquette, IA: 445400371A

Work Order: 07939-06-2015

Printed by EBis 3 (datcomedia.com)

Date	Total Time		Time Since Last Overhaul		<i>Engine Service and Maintenance Record</i>
	Hours	Min	Hours	Min	
Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins					

ENGINE MODEL: IO-360ES
ENGINE S/N: 1007857
REG NO: N230WA
WORK ORDER: 07976-08-2015

US Flight Aircraft Maintenance

1 Wallingford Rd
Hangar 5
Danbury, CT 06810 USA
Phone: 914-288-8088

DATE: 11 August, 2015
A/C TSN: 866.1
ENG TT: 641.5
FLIGHTTIME: 641.5

Engine Entries

1 MAGNETO DROP ON LEFT MAG... Removed magneto P/N 10-500556-3 S/N D12LA125.

Inspection reveals inside of magneto full of oil.

Installed new magneto P/N 10-500556-3 S/N D15GA153.

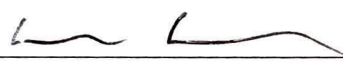
Mag to engine timing set to 25 degrees BTDC.

Test run. No defects noted.

The work performed has been approved for return to service.

DATE: 11 August, 2015

SIGNED:



SCOTT SPLETZER, A&P: 3402681

Work Order: 07976-08-2015

Printed by EBis 3 (datcomedia.com)

ENGINE MODEL: IO-360ES
ENGINE S/N: 1007857
REG NO: N230WA
WORK ORDER: 07985-08-2015

US Flight Aircraft Maintenance

1 Wallingford Rd
Hangar 5
Danbury, CT 06810 USA
Phone: 914-288-8088

DATE: 25 August, 2015
A/C TSN: 866.1
ENG TT: 650.6
FLIGHTTIME: 650.6

Engine Entries

1 C/W 50HR OIL CHANGE SERVICE... Engine warmed to operating temperatures, drained oil, Take oil sample for analysis.

Removed and Cut filter, inspect filter, no metals noted.

Install and Torque new AA48108-2 filter.

Serviced engine with 6 qts. Phillips 100AD oil. Add 1-bottle avblend.

The work performed has been approved for return to service.

DATE: 25 August, 2015

SIGNED:



Bernard Paquette, A&P: 445400371A

Work Order: 07985-08-2015

Printed by EBis 3 (datcomedia.com)

ENGINE MODEL: IO-360ES
ENGINE S/N: 1007857
REG NO: N230WA
WORK ORDER: 08014-09-2015

US Flight Aircraft Maintenance

1 Wallingford Rd
Hangar 5
Danbury, CT 06810 USA
Phone: 914-288-8088

DATE: 01 October, 2015
A/C TSN: 930.4
ENG TT: 690.5
FLIGHTTIME: 690.5

Engine Entries

5 RIGHT ENGINE RIGHT MAGNETO FIRING AT 25.5 DEGREES BTDC.
LEFT MAGNETO FIRING AT 23 DEGREES BTDC.

SPEC IS 24 DEGREES BTDC.... Inspected magneto timing using Rite System Precision Timing Tool.

Left magneto found at 23 degrees BTDC.

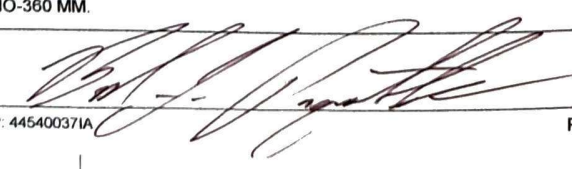
Right magneto found at 25.5 degrees BTDC.

Set both magnetos to 24 degrees BTDC I/A/W CMI IO-360 MM.

The work performed has been approved for return to service.

DATE: 01 October, 2015

SIGNED:



Bernard Paquette, A&P: 445400371A

Work Order: 08014-09-2015

Printed by EBis 3 (datcomedia.com)

Date	Total Time		Time Since Last Overhaul		<i>Engine Service and Maintenance Record</i>
	Hours	Min	Hours	Min	

Engine Service and Maintenance Record

Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins

ENGINE MODEL 10-360ES
ENGINE S/N 1007857
REG NO N230WA
WORK ORDER 08051-12-2015

US Flight Aircraft Maintenance
1 Wallingford Rd
Hangar 5
Danbury, CT 06810 USA
Phone: 914-288-8088

DATE: 05 January, 2016
A/C TSN: 1095 2
ENG TT: 787.9
FLIGHTTIME: 787.9

Engine Entries

- 2 C/W CIRRUS AIRCRAFT 100HR/ANNUAL INSPECTION OF ENGINE.... Engine Inspected using Cirrus SR-20 Aircraft 100hr/Annual maintenance manual inspection checklist. Performed satisfactory pre-inspection run up IAW CDC SR-22 AMM 5-30.

Performed cylinder differential pressure test; results as follows, CA43 # 1)66, #2)72, # 3)70, #4)72, #5) 74, #6) 64.

Drained engine oil, removed and cut open filter. No abnormal debris noted. Secured new AA48108-2 filter.

Serviced engine with 6 Qts Phillips 20W-50W X/C oil. 1 pint Avblend added.

Cleaned rotated and secured spark plugs 6 replaced at this time.

Performed satisfactory ground functional checks.

AD's & MSB's ck thru biweekly 2016-1.

I certify this ENGINE has been inspected in accordance with an ANNUAL inspection and has been determined to be in airworthy condition
- 4 6 SPARK PLUGS HAVE WORN ELECTRODES... Removed worn spark plugs.

Installed 6 new Tempest URHM38E spark plugs in lower positions.
- 5 FUEL INJECTOR NOZZLES SERVICE DUE EA 300 HRS OR ANNUALLY PER CIRRUS SR-20 AMM 5-20 CHECKLIST AND TCM SID 05-7 ICA. AND GAMI IP-2001-02.... Cleaned fuel injectors using ultra sonic method. Secured and Torqued. Performed leak check; found none. All work performed IAW TCM SID 05-7. and GAMI IP-2001-02

I certify that this engine has been approved for return to service.

DATE: 05 January, 2016


SIGNED: 
Bernard Paquette, IA: 44540037IA

Work Order: 08051-12-2015

Printed by EBis 3 (datcomedia.com)

Date	Reg#	Tach	TTAF	TTE
APR18-16	N230WA	841.6	841.6	841.6

Changed engine oil, replaced with 6 quarts of Phillips 20W50, also added 1 pint of AvBlend oil additive. Replaced and safety wired new Tempest 48108-2 oil filter. Performed ground run & leak check. No discrepancies noted


Christopher Orifici
Commercial Pilot
3756784

Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hours	Min	Hours	Min	
Carried forward →					

ENGINE MODEL: IO-360ES
ENGINE S/N: 1007857
REG. NO: N230WA
WORK ORDER: 08101-04-2016

US Flight Aircraft Maintenance

1 Wallingford Rd
Hangar 5
Danbury, CT 06810 USA
Phone: 914-288-8088

DATE: 04 May, 2016
A/C TSN: 1156.6
ENG TT: 853.2
FLIGHTTIME: 853.2

Engine Entries

- 2 C/W CIRRUS AIRCRAFT 100HR/ANNUAL INSPECTION OF ENGINE.... Engine Inspected using Cirrus SR-20 Aircraft 100hr/Annual maintenance manual inspection checklist, Performed satisfactory pre-inspection run up IAW CDC SR-22 AMM 5-30.

Performed cylinder differential pressure test; results as follows, CO-47 # 1)70, #2)76, # 3)76, #4)76, #5) 76, #6) 74.

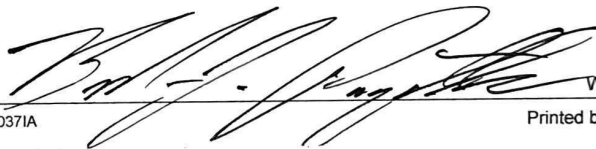
Cleaned rotated and secured spark plugs. Performed satisfactory ground functional checks.

AD's & MSB's ck thru biweekly 2016-5.

I certify this ENGINE has been inspected in accordance with an ANNUAL inspection and has been determined to be in airworthy condition
- 4 ENGINE AIR INLET FILTER DUE FOR REPLACEMENT... Installed a new BA-24 filter element.
- 8 CMI SERVICE INFORMATION LETTER SIL15-8, ALTERNATOR MOUNT INSPECTION, IS DUE... Inspected alternator mount I/A/W SIL 15-8. No defects noted.

Technicians Who Worked On The Items Listed Above:
SCOTT SPLETZER

I certify that this engine has been approved for return to service.



DATE: 04 May, 2016

SIGNED:

Bernard Paquette, IA: 445400371A

Work Order: 08101-04-2016

Printed by EBis 3 (datcomedia.com)

ENGINE MODEL: IO-360ES
ENGINE S/N: 1007857
REG. NO: N230WA
WORK ORDER: 08128-06-2016

US Flight Aircraft Maintenance

1 Wallingford Rd
Hangar 5
Danbury, CT 06810 USA
Phone: 914-288-8088

DATE: 17 June, 2016
A/C TSN: 1207.4
ENG TT: 888.7
FLIGHTTIME: 888.7

Engine Entries

- 1 C/W OIL CHANGE SERVICE... Engine warmed to operating temperatures, drained oil.

Take oil sample for analysis.

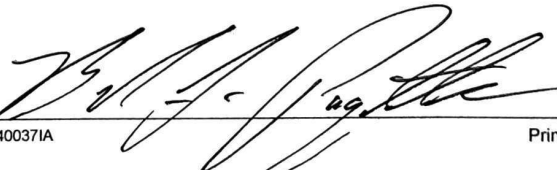
Removed and Cut filter, inspect filter, no metals noted.
Install and Torque new AA48108-2 filter.

Serviced engine with 6 qts. Phillips X/C 20w50 oil. Add 1-bottle avblend.

Performed ground run, no leaks noted.

Technicians Who Worked On The Items Listed Above:
Bernard Paquette

The work performed has been approved for return to service.




DATE: 17 June, 2016

SIGNED:

Bernard Paquette, A&P: 445400371A

Work Order: 08128-06-2016

Printed by EBis 3 (datcomedia.com)

ENGINE MODEL: IO-360ES ENGINE S/N: 1007857 REG. NO: N230WA WORK ORDER: 08145-07-2016	US Flight Aircraft Maintenance 1 Wallingford Rd Hangar 5 Danbury, CT 06810 USA Phone: 914-288-8088	DATE: 21 July, 2016 A/C TSN: 1372 ENG TT: 938 FLIGHTTIME: 938
Engine Entries		
1 ENGINE OIL CHANGE SERVICE... Engine warmed to operating temperatures, drained oil Take oil sample for analysis Removed filter Drain & bag for analysis Install and Torque new AA48108-2 filter. Serviced engine with 6 qts Phillips X/C 20w50 oil and 1-bottle avblend Performed ground run, no leaks noted		
Technicians Who Worked On The Items Listed Above SCOTT SPLETZER		
The work performed has been approved for return to service		
DATE: 21 July, 2016	SIGNED: 	Work Order: 08145-07-2016 Printed by EBis 3 (datcomedia.com)

Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hours	Min	Hours	Min	

C:

ENGINE MODEL IO-360ES
ENGINE S/N 1007857
REG NO N230WA
WORK ORDER 08165-08-2016

US Flight Aircraft Maintenance
1 Wallingford Rd
Hangar 5
Danbury, CT 06810 USA
Phone: 914-288-8088

DATE: 16 August, 2016
A/C TSN: 1290.4
ENG TT: 954.2
FLIGHTTIME: 952.4

Engine Entries

4 #6 EXHAUST STACK BRACKET TO COLLECTOR ELONGATED... Removed #6 stack from left exhaust bank.
Installed repaired stack in #6 position with new gaskets as required and new bolt, secured with cotter pin., lubed stack and collector with Anti-seize.

Technicians Who Worked On The Items Listed Above:
Bernard Paquette

The work performed has been approved for return to service.

DATE: 16 August, 2016 SIGNED: 
Bernard Paquette, A&P: 44540037IA

Work Order: 08165-08-2016
Printed by EBis 3 (datcomedia.com)

ENGINE MODEL IO-360ES
ENGINE S/N 1007857
REG NO N230WA
WORK ORDER 08165-08-2016

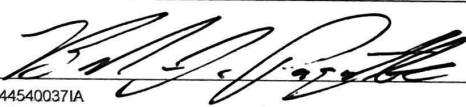
US Flight Aircraft Maintenance
1 Wallingford Rd
Hangar 5
Danbury, CT 06810 USA
Phone: 914-288-8088

DATE: 16 August, 2016
A/C TSN: 1290.4
ENG TT: 954.2
FLIGHTTIME: 952.4

Engine Entries

2 C/W CIRRUS AIRCRAFT 100HR/ANNUAL INSPECTION ON ENGINE.... Complied with 100 hour/Annual inspection as per Cirrus Aircraft SR-20 maintenance manual inspection checklist 5-20,
Compression check CO-43 #1 53/80, #2 67/80 #3 71/80 #4 72/80, #5 71/80, #6 62/80.
ADs checked thru 8-2016
I certify this AIRFRAME has been inspected in accordance with an ANNUAL inspection and has been determined to be in airworthy condition.

I certify that this engine has been approved for return to service.

DATE: 16 August, 2016 SIGNED: 
Bernard Paquette, IA: 44540037IA

Work Order: 08165-08-2016
Printed by EBis 3 (datcomedia.com)

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ENGINE MODEL IO-360ES
ENGINE S/N 1007857
REG NO N230WA
WORK ORDER 08195-10-2016

US Flight Aircraft Maintenance
1 Wallingford Rd
Hangar 5
Danbury, CT 06810 USA
Phone: 914-288-8088

DATE: 17 October, 2016
A/C TSN: 1343.1
ENG TT: 992
FLIGHTTIME: 992

Engine Entries

1 C/W OIL CHANGE SERVICE... Engine warmed to operating temperatures, drained oil.
Take oil sample for analysis.
Removed filter Drain & bag for analysis
Install and Torque new AA48108-2 filter.
Serviced engine with 6 qts. Phillips X/C 20w50 oil and 1-bottle avblend.
Performed ground run, no leaks noted.

Technicians Who Worked On The Items Listed Above:
Bernard Paquette

The work performed has been approved for return to service.

DATE: 17 October, 2016 SIGNED: 
Bernard Paquette, A&P: 44540037IA

Work Order: 08195-10-2016
Printed by EBis 3 (datcomedia.com)

Date	Total Time	
	Hours	Min

1. Approving Civil Aviation Authority/Country: FAA/United States	2.
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AUTHORIZED RELEASE
FAA Form 8130-3, AIRWORTHINE

ENGINE MODEL: IO-360ES
ENGINE S/N: 1007857
REG. NO: N230WA
WORK ORDER: 08234-01-2017

US
1 We Hang Danb Phon

4. Organization Name and Address:
Kelly Aerospace Energy Systems, 1400 E. South Blvd., Montgomery, AL 36116

6. Item	7. Description:	8. Part Number:	9. C
1	MAGNETO 20 SERIES	10-500556-3	

Engine Entries

- 5 RIGHT MAGNETO DUE FOR 500HR DIS 10-500556-3, S/N D12LZA127.
C/W 500 hour inspection I/A/W CMI MM)
Found contact points worn and coil conta
Installed overhauled magneto P/N 10-500
- 6 6 SPARK PLUGS HAVE ELECTRODES
- 7 CRANKSHAFT FLANGE BEGINNING TO
Cleaned crankshaft flange area and treat
Reinstalled propeller with new O ring P/N C-3317-228 I/A/W SR22 MM 61-10.
- 12 FUEL INJECTOR NOZZLES STAINED.... Cleaned fuel injectors using ultra sonic method. Secured and Torqued. Performed leak check; found none.
All work performed IAW TCM SID 05-7.
- 15 OIL DIPSTICK SUPPORT CLAMP BROKEN... Installed new clamp P/N MS21919WDG-8.

12. Remarks:
OVERHAULED IN ACCORDANCE WITH CONTINENTAL MOTORS INC. X40000, X42002- AND AD NOTES COMPLIED WITH: SB623A, AD82-20-01, SB599D, MSB645, AD2005-12-0 FULL DETAILS OF WORK CARRIED OUT PER WORK ORDER NO. KES1612-425

CERTIFIES THAT THE WORK IN BLOCK 11/12 WAS CARRIED OUT IN ACCORDANCE WITH REGULATIONS, PART 43 AND WITH EASA PART 145. WITH RESPECT TO THAT WORK IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVAL CERTIFICATE AND BY THE FAA AIR AGENCY CERTIFICATE NUMBER 9KJR356C.

Technicians Who Worked On The Items Listed Above:
Bernard Paquette, SCOTT SPLETZER

The work performed has been approved for return to service.



DATE: 03 March, 2017

SIGNED:
Bernard Paquette, A&P: 445400371A

Work Order: 08234-01-2017

Printed by EBis 3 (datcomedia.com)

ENGINE MODEL: IO-360ES
ENGINE S/N: 1007857
REG. NO: N230WA
WORK ORDER: 08234-01-2017

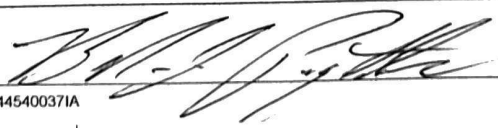
US Flight Aircraft Maintenance
1 Wallingford Rd
Hangar 5
Danbury, CT 06810 USA
Phone: 914-288-8088

DATE: 03 March, 2017
A/C TSN: 1426.7
ENG TT: 1051.9
FLIGHTTIME: 1051.9

Engine Entries

- 2 C/W 100HR/ANNUAL INSPECTION ON ENGINE.... C/W 100HR/Annual Inspection using FAR 43 Appendix D as a guide.
Run Engine to operating temperatures,
Perform Compression check on cylinders CO/46 #1 73/80 #2 74/80 #3 79/80 #4 77/80 #5 75/80 #6 65/80
Boroscope cylinders checks airworthy.
Drain oil & take sample, Remove filter and cut open, no metal noted.
Install new oil filter AA48108-2, Fill engine with 6qts Phillips 20W-50W X/C oil & 1 can Avblend additive.
AD's checked Thru 2-21-2017
I certify this ENGINE has been inspected in accordance with an ANNUAL Inspection and has determined to be in airworthy condition.

I certify that this engine has been approved for return to service.



DATE: 03 March, 2017

SIGNED:
Bernard Paquette, IA: 445400371A

Work Order: 08234-01-2017

Printed by EBis 3 (datcomedia.com)

Total Time _____
Time Since Last Overhaul _____

Engine Service and Maintenance Record

Date _____

Hours Min Hours Min

Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins

ENGINE MAKE: PIPER
ENGINE PART NUMBER:
SERIAL NUMBER:
WORK ORDER: 08316-07-2017

US Flight Aircraft Maintenance

1 Wallingford Rd
Danbury, CT 06810 USA
Phone: 914-288-8088

DATE: 05 July, 2017
A/C TSN: 1496.6
ENG TT: 1102.8
FLIGHTTIME: 1102.8


Engine Entries

1 OIL CHANGE SERVICE Ran engine to operating temperature. Drained oil, took oil sample, removed, opened and inspected filter. Installed new AA48108-2 filter. Serviced engine with 6 qts Phillips 100W oil. Test ran engine; leak and functional check satisfactory.

Technicians Who Worked On The Items Listed Above:
SCOTT SPLETZER

The work performed has been approved for return to service.

DATE: 05 July 2017

SIGNED: 
SCOTT SPLETZER, A&P: 3402681

Work Order: 08316-07-2017
Printed by EBis 3 (datamedia.com)

ENGINE MAKE: PIPER
ENGINE PART NUMBER:
SERIAL NUMBER:
WORK ORDER: 08413-10-2017

US Flight Aircraft Maintenance

1 Wallingford Rd
Hangar 5
Danbury, CT 06810 USA
Phone: 914-288-8088

DATE: 31 October, 2017
A/C TSN: 1571.9
ENG TT: 1160.5
FLIGHTTIME: 1160.5

Engine Entries

- 2 COMPLY WITH ENGINE OIL CHANGE SERVICE... Engine warmed to operating temperatures, drained oil, took oil sample for analysis. Performed cylinder differential pressure test; results as follows, # 1)72, #2)66, # 3)78, #4)76, #5) 76, #6) 68, calibrated orifice 46. Performed a boroscope inspection on all cylinders with no defects found. Drained engine oil and took oil sample. Removed and cut open filter, no abnormal debris noted. Secured new AA48108-2 filter and serviced engine with 6 Qts Phillips X/C 20/50 oil and 1 pint of Avblend. Cleaned rotated and secured spark plugs. Performed satisfactory ground functional checks. Performed ground run, no leaks noted.
- 3 ENGINE AIR FILTER DUE FOR REPLACEMENT (ANNUALLY/200 HRS)... Installed a new BA-24 filter element.
- 4 FUEL INJECTOR NOZZLES SERVICE DUE EA 300 HRS OR ANNUALLY PER CIRRUS SR-22 AMM 5-20 CHECKLIST AND TCM SID 05-7 ICA AND GAMI IP-2001-02.... Cleaned fuel injectors using ultra sonic method. Secured and Torqued. Performed leak check; found none. All work performed IAW TCM SID 05-7. and GAMI IP-2001-02

Technicians Who Worked On The Items Listed Above:
SCOTT SPLETZER

The work performed has been approved for return to service.

DATE: 31 October, 2017

SIGNED: 
Bernard Paquette, A&P: 445400371A

Work Order: 08413-10-2017
Printed by EBis 3 (datamedia.com)

Date	Total Time		Time Since Last Overhaul		<i>Engine Service and Maintenance Record</i>
	Hours	Min	Hours	Min	
Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins					

Carried forward



Make: TCM
Model: IO-360-ES
S/N: 1007857

1501 Narcissa Road Blue Bell, Pa 19422 (215) 646-0400

Date: 11/28/2017
N230WA
Hobbs: 1587.8
Flight: 1174.8
ETTSN: 1174.8

Engine Entry:

Performed a pre buy inspection IAW Cirrus Certified SR2X Pre Buy Checklist. List of discrepancies has been provided to the owner and buyer. Performed a compression test with results as follows: 1-70/80, 2-72/80, 3-70/80, 4-70/80, 5-72/80., 6-68/80. Master orifice reading: 44/80. Performed a bore scope inspection of all cylinders with satisfactory results. Cut and inspected the oil filter – no unusual debris noted. Installed new CH48108-1 oil filter and safetied as required. Serviced the oil sump with one quart of Phillips 20W-50 XC oil. Removed and replaced the oil cooler shoe. **Performed a 500 hour magneto inspection on the left magneto IAW CMI MM X42002 Ch. 6-2.3.** Removed and replaced the following parts: points assembly, capacitor, distributor gear and brush assembly, and oil seal. Assembled magneto and timed internally. Installed magneto on the engine using a new gasket and timed to engine as required. All operational and leak checks good with respect to the work performed. Details of this work are on file at this facility under work order #T10111. END.

Milan Jovanovic
A&P31641171A



Make: TCM
Model: IO-360-ES
S/N: 1007857

1501 Narcissa Road Blue Bell, Pa 19422 (215) 646-0400

Date: 12/08/2017
N230WA
Hobbs: 1587.8
Flight: 1174.8
ETTSN: 1174.8

Engine Entry:

Performed an annual inspection IAW FAR 43. Appendix D. using Cirrus MM Chapter 5-20 checklist as a guide. No applicable AD's due at this time. Removed and replaced the induction air filter. Checked the magneto to engine timing and megged the ignition harness. Cleaned all fuel injectors. Cleaned, gapped, and tested all spark plugs. Engine ground run-up and leak check good. This inspection was performed post Pre-by inspection dated 11/28/2017. Details of this work are on file at this facility under work order #T10157. END.

I certify that this engine was inspected IAW an annual inspection and was determined to be in airworthy condition.

Milan Jovanovic
A&P31641171A

Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hours	Min	Hours	Min	
Carried forward →					
3/23/18	16	35	7		REMOVED COWLS. DRAINED OIL & CHANGED FILTER CH48108-1 SERVICED WITH PHILLIPS 20W50 8 QTS. ENGINE RUN & LEAK CK PERFORMED SATISFACTORY Tully Ref AP22919115-ENG
5/17/18	17	04	9		REMOVED COWLS. DRAINED OIL & CHANGED FILTER CH48108-1 SERVICED WITH 8 QTS OF PHILLIPS 20 50 X/C. OIL Tully Ref AP22919115
Tach	12	61	2		TOOK SOAP SAMPLE BlackStone UNDER TRACKING # 9216 2201 9154 3300 946688 Tully Ref AP 22919115-ENG



Culpeper Regional Airport
12539 Beverly Ford Road
Brandy Station, VA 22714
540-825-9711

Registration: N230WA
Model: TCM IO-360 ES25B
S/N: 1007857
Flight Hobbs: 1272.0
W/O#: W18-3224
Date: 06-07-2018

- Complied with Annual Inspection using Cirrus SR20 MM 05-20 as a guide meeting the requirements of 14 CFR Part 43 Appendix D.
- Drained oil. Oil sample taken and sent to BlackStone for analysis. Removed filter and inspected; no metal noted. Installed new CH48108-1 filter and serviced engine with 8 quarts of Phillips 20W50 oil.
- Compressions checked as follows: #1 68/80, #2 73/80, #3 71/80, #4 72/80, #5 72/80, #6 68/80.
- Checked magneto to engine timing.
- Installed six new URHM38E spark plugs in top position all cylinders.
- Inspected exhaust system.
- Installed new induction air filter (P/N: BA24).
- Adjusted idle speed and mixture per TCM Manual M-7.
- Cleaned engine. Performed ground run checks; no defects noted.

I certify that this ENGINE has been inspected in accordance with an Annual Inspection and was determined to be in airworthy condition.

Signature: Martin Dodson A&P/IA 3664335
Martin Dodson

Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hours	Min	Hours	Min	
Carried forward →					
10/31/18					Removed Cowl. Drained oil + changed filter C#48108-1
	Hobbs	1782.40			Serviced with 8 qts of Phillips 20W-50 XC oil JEL PPL 3701333
	Tach	1320.1			
					Took oil sample for Blackstone Labs
					JEL PPL 3701333

ENGINE MODEL:
IO-360-ES
ENGINE S/N: 1007857
REG. NO: N230WA
WORK ORDER:
6350-02-2019

ADVANCED Fly Advanced

Repair Station No. 5T2R901C
530 Airport Rd.
Litz, PA 17543
Phone: 717-735-5179

DATE: 2/27/2019
A/C TSN: 1357
ENG TT: 1357
HOBBS: 1830.6

Engine Entries

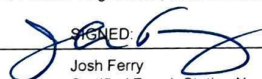
Drained the engine oil and replaced filter, Serviced engine with 7 qts of Phillips 20W50 X/C. Performed analysis on Oil Filter and Oil. Ground run and leak checked good.... Adjusted RPM as required for proper Takeoff RPM.

Maintenance Release

The aircraft and/or component(s) on N230WA was repaired and inspected in accordance with the current rules and regulations of Title 14 of the Code of Federal Regulations, was found Airworthy and was returned to service.

DATE: 2/27/2019

SIGNED:



Josh Ferry
Certified Repair Station No. 5T2R901C

Work Order: 6350-02-2019

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ENGINE MODEL:
IO-360-ES(25B)
ENGINE S/N: 1007857
REG. NO: N230WA
WORK ORDER:
6466-04-2019

ADVANCED Fly Advanced

Repair Station No. 5T2R901C
530 Airport Rd.
Litz, PA 17543
Phone: 717-735-5179

DATE: 6/24/2019
A/C TSN: 1406.9
ENG TT: 1406.9
HOBBS: 1898.2

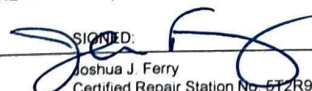
Engine Entries

Annual Engine Inspection completed IAW FAR 91.409 and the requirements outlined in FAR 43 App. D. with reference to the Cirrus AMM checklist ch 5-20. Compression check (x/80) 1: 70 2: 70 3: 65 4: 74 5: 68 6: 64. MO 46. Drained and sampled the oil, removed and inspected the oil filter. Installed a new oil filter and serviced the engine with 7 quarts of Phillips XC 20W-50. Cleaned, gapped and tested the spark plugs. **Cleaned the fuel injector nozzles.** Checked the mag timing. Final run up/leak check good. All Ad's current thru 2019-13.... Removed and replaced all (6) of the exhaust valve rocker cover gaskets... Secured the oil cooler shoe as required.... Removed and reinstalled the left and right magnetos after gasket replacement, timed mags to engine as required.... Removed and replaced the #2 Cylinder intake tube gasket.

I certify that this ENGINE has been inspected IAW an Annual Inspection and was found to be in Airworthy condition.

DATE: 6/24/2019

SIGNED:



Joshua J. Ferry
Certified Repair Station No. 5T2R901C

Work Order: 6466-04-2019

Printed by EBis 3 (datcomedia.com)

Engine Service and Maintenance Record

Date	Total Time		Time Since Last Overhaul		Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hours	Min	Hours	Min	

Carried forward →					
10/18/2019					Removed cowl Drained Oil + changed filter CH 48108-1 serviced w/ 8 quarts of Phillips 20W50 x/c oil 71 RMD PPL 3701333
Flight 1450					71 RMD PPL 3701333
					Took oil sample for Blackstone labs 71 RMD PPL 3701333
5/30/2020					Removed cowl. Drained oil + changed filter CH 48108-1 serviced w/ 8 quarts of Phillips 20W50 x/c oil 71 RMD PPL 3701333
Flight 1491.7					71 RMD PPL 3701333
					Took Oil sample for Blackstone labs 71 RMD PPL 3701333

ENGINE MODEL: IO-360-ES(25B) ENGINE S/N: 1007857 REG. NO: N230WA WORK ORDER: 7325-06-2020	ADVANCED Fly Advanced Repair Station No. 5T2R901C 530 Airport Rd. Litz, PA 17543 Phone: 717-735-5179	DATE: 7/2/2020 A/C TSN: 1515.9 ENG TT: 1515.9 HOBBS: 2050.7
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Engine Entries

Annual Engine Inspection completed IAW FAR 91.409 and the requirements outlined in FAR 43 App. D, with reference to the Cirrus AMM checklist ch 5-20. Compression check (x/80) 1: 60 2: 66 3: 47 4: 52 5: 58 6: 61. MO 44. Drained oil and performed AvLab oil analysis. Removed and inspected the oil filter, no contamination noted. Installed a new AA48108-2 oil filter and serviced the engine with 7 quarts of Phillips XC 20W-50. Cleaned, gapped and tested the spark plugs. Cleaned the fuel injector nozzles. Checked the mag timing. Final run up/leak check good. All Ad's current thru 2020-13. C/W 500 Hour Magneto Inspection on both mags, disassembled, cleaned and inspected both mags. Installed new distributor gear kits, garlock seals, points, intake and mag gaskets. Both coils are within limits. Replaced the right mag rotor bearing. Replaced the right mag distributor block. Set the internal timing and timed mags to the engine. Removed and re-installed the oil pressure relief valve with new gasket, after replacement of the adjustment screw copper washer. Removed and re-installed the oil quick drain assembly after re-sealing with new o-rings. Removed and replaced the Cylinder #1 and #3 pushrod tube seals and rocker cover gaskets.

I certify that this ENGINE has been inspected IAW an Annual Inspection and was found to be in Airworthy condition.

DATE: 7/2/2020	SIGNED  Joshua J. Ferry Certified Repair Station No. 5T2R901C	Work Order: 7325-06-2020 Printed by EBIS 3 (datcomedia.com)
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Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hours	Min	Hours	Min	
Carried forward →					

ENGINE MODEL: **ADVANCED Fly Advanced** DATE: 9/18/2020
 IO-360-ES(25B) A/C TSN: 1570.7
 ENGINE S/N: 1007857 Repair Station No. 5T2R901C
 REG. NO: N230WA 530 Airport Rd. ENG TT: 1570.7
 WORK ORDER: 7562-09-2020 Litz, PA 17543 HOBBS: 2130.7
 Phone: 717-735-5179

Engine Entries

Removed and replaced starter with new **Continental Energizer P/N: ES646275-1, S/N: H-T052434** (Removed SkyTec ST3, S/N: 4C3-441205), weight and balance revision Placed in the Aircraft POH... Drained the engine oil and replaced filter w/ P/N: AA48108-2. Serviced engine with 7 qts of Phillips 20W50 X/C engine oil. Cut open filter and inspected, no contamination found at this time. Performed AvLab oil analysis. Ground run and leak checked good.

Maintenance Release

The aircraft and/or component(s) on N230WA was repaired and inspected in accordance with the current rules and regulations of Title 14 of the Code of Federal Regulations, was found Airworthy and was returned to service.

DATE: 9/18/2020

SIGNED: 
 Joshua J. Ferry
 Certified Repair Station No. 5T2R901C

Work Order: 7562-09-2020

Printed by EBis 3 (datcomedia.com)

ENGINE MODEL: **ADVANCED Fly Advanced** DATE: 10/7/2020
 IO-360-ES(25B) A/C TSN: 1589.6
 ENGINE S/N: 1007857 Repair Station No. 5T2R901C
 REG. NO: N230WA 530 Airport Rd. ENG TT: 1589.6
 WORK ORDER: 7609-10-2020 Litz, PA 17543 HOBBS: 2156.4
 Phone: 717-735-5179

Engine Entries

Drained the engine oil and replaced filter w/ P/N: AA48108-2. Serviced engine with 7 qts of Phillips 20W50 X/C engine oil. Cut open filter and inspected, no contamination found at this time. Performed AvLab oil analysis. Ground run and leak checked good.

Maintenance Release

The aircraft and/or component(s) on N230WA was repaired and inspected in accordance with the current rules and regulations of Title 14 of the Code of Federal Regulations, was found Airworthy and was returned to service.

DATE: 10/7/2020

SIGNED: 
 Joshua J. Ferry
 Certified Repair Station No. 5T2R901C

Work Order: 7609-10-2020

Printed by EBis 3 (datcomedia.com)



Make: TCM
 Model: IO-360-ES
 S/N: 1007857

1501 Narcissa Road Blue Bell, Pa 19422 (215) 646-0400

Date: 11/25/2020
 N230WA
 Hobbs: 2159.7
 Flight: 1591.3
 ETTSN: 1591.3

Engine Entry:

Performed a pre buy inspection IAW Cirrus Certified SR2X Pre Buy Checklist. List of discrepancies has been provided to the owner and buyer. Performed a compression test with results as follows: 1-65/80, 2-68/80, 3-50/80, 4-48/80, 5-63/80., 6-48/80. Master orifice reading: 45/80. **Replaced Cyl 3 with new assy. S/N AC20GB270. Replaced Cyl 4 with new assy. S/N AC20GB333. Replaced Cyl 6 with new assy. S/N AC20EC178.** Replaced all pushrod tube seals. All operational and leak checks good with respect to the work performed. Details of this work are on file at this facility under work order #LWO-13558. END.

Ryan McGee
 A&P378695IA



Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hours	Min	Hours	Min	

Carrie

ENGINE MODEL
IO-360E-S25B
ENGINE S/N 1007857
REG NO 230WA
WORK ORDER
12153-06-2021



Flightline Group, Inc.

3256 Capital Circle SW
Tallahassee, Florida 32310
Phone 850-576-3515

DATE: 9/1/2021
A/C TSN: 1618 1
ENG TT: 1618 1
TSMOH:
HOBBS: 1618 1

Engine Entries

C/W Engine Annual Inspection...Engine compression readings (80 psi applied): #1- 61, #2-71, #3-75, #4-76, #5-71, #6-74. Master orifice 42 psi...Changed oil and filter. (8 qts. 20w-50 Phillips XC, CH48108-1 Champion oil filter) Opened old filter and visually inspected for metal; none detected at this time...Checked engine / magneto timing...Cleaned and tested spark plugs...Replaced Induction air filter P/N: BA24...Replaced 6 ea top spark plugs P/N: RHM38E...Replaced #1,5,6 exhaust valve cover gaskets, #4,6 intake valve cover gaskets. P/N: 655704...Replaced Oil Pressure sensor P/N: 12635-004. Ref Amm 79-30...C/W TCM SB 643B Maintenance intervals for all TCM / Bendix magnetos and related equipment...C/W TCM SB 03-3 Differential pressure test and borescope inspection procedures for cylinders...Cleaned Fuel Injector nozzles. Ref. MM FI-2...Cleaned engine. Operational and leak checks satisfactory.

The aircraft, engine, propeller or appliance identified above has been inspected per current FAA regulations in accordance with an annual inspection, referencing the Annual Inspection Guide as set forth in the latest revision of the Cirrus SR20 Maintenance Manual and found to be in an airworthy condition. This release in no way certifies future airworthiness.

DATE: 9/1/2021

SIGNED:

Work Order: 12153-06-2021

Matthew W. Suber, IA: 3764687

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4141 Jerry Maygarden Rd
Pensacola, FL 32504
850-433-6116

11/17/2022 N230WA - Cirrus SR20 S/N: 2229 HOBBS: 2202.4 AFTT: 2202.4
Continental: IO-360E-S25B S/N: 1007857 ETT: 2202.4 ETSMOH: N/A

- 1-Performed pre maintenance engine run - no defects
- 2-Drained and replenished engine oil with 7 qts of Phillips 20/50 engine oil
- 3-Replaced engine oil filter with new p/n AA48108-2
- 4-Old oil filter was cut open and inspected - no defects
- 5-Engine air induction filter due- Inspected and changed as required w/ p/n BA111
- 6-Cleaned & tested spark plugs, installed w/ new gaskets p/n M674
- 7-Performed engine compression test - #1-53, #2-60, #3-72, #4-74, #5-60, #6-70
- 8-Inspected and checked magneto timing L=24° & R=24° - no defects
- 9-Performed post maintenance engine run - no leaks or other defects noted

I certify this **ENGINE** was inspected IAW a **100 HOUR INSPECTION** as per FAR 43 app. D and has been determined to be in airworthy condition.
Pertinent details of this maintenance action can be found under W/O 27022-1

Paul Spagnolo
3510174 A&P