



NATIONAL TRANSPORTATION SAFETY BOARD

Office of Aviation Safety
Washington, D.C. 20594

August 10, 2020

AIRCRAFT LOGBOOK EXCERPTS

ERA19FA188

YEAR
20
DATE

RECORDING
TACH
TIME

TODAY'S
FLIGHT

TOTAL
TIME IN
SERVICE

Description of Inspections, Tests, Repairs and Alterations

Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)

ROCKET Repair Station RN0R650X/EASA.145.6339

ENGINEERING CORP.

Felts Field, Spokane, WA 99212

Aircraft: N 709CH

Model : PA46-350P

Serial #: 4636431

Total Time: 1210.7

Hobbs: 1210.7

Work Order #: REC-2017-01

1. AN ANNUAL/100hr. INSPECTION WAS COMPLETED ON THIS DATE IN ACCORDANCE WITH THE ROCKET ENGINEERING ANNUAL INSPECTION WORK SHEET.
2. STATUS OF SPECIAL INSPECTIONS:
 - A. 2 YR/500 FUEL TANK INSPECTION. C/W NEXT DUE: **Apr. 2019**
 - B. 5 YEAR CORROSION CONTROL INSPECTION. NEXT DUE: **Feb. 2018**
 - C. 7 YR/2000 HOUR INTERIOR REMOVAL/CORROSION INSPECTION C/W- NO DEFECTS NOTED. NEXT DUE: **Apr. 2024 / 3210.7**
 - D. 400 hr VACUUM CHECK VALVE TEST/DEICE VALVE CLEANING C/W. NEXT DUE: **1610.7**
 - E. 1000hr FLAP TRACK INSPECTION. NEXT DUE: **Hobbs: 2196.3**
 - F. O2 BOTTLE HYDROSTATIC TEST. NEXT DUE:
 - G. VACUUM SYSTEM FILTER **NEW**. NEXT DUE: **Hobbs: 1710.7 / Annual or pump replacement**
 - H. VACUUM PUMP **NEW**. NEXT DUE: **Hobbs: 1710.7**
 - I. NLG DOWN-SPRING **NEW**. RECOMMENDED REPLACEMENT: **Apr. 2019**
3. COMPLIED WITH THE FOLLOWING PIPER SERVICE BULLETINS:
 - A. **SB 1048** CONTROL CABLES
 - B. **SB 1181B** FLAPTRAC/SPLICE STRAP INSPECTION
 - C. **SB 1193** NOSE DOWNSPRING REPLACEMENT
 - D. **SB 2000** CURRENT LIMITER
 - E. **SB 1237** STATIC DISCHARGER REPLACEMENT
 - F. **SB 1271** WING SPAR INSPECTION
 - G. **SB 1288** AFT VERTICAL FIN SPAR INSPECTION
4. INSPECTED ELT IAW PIPER MM 761-876 CHAP. 25-60-00 PARA. C (2) A THRU I. ELT PASSED INSPECTION. **BATTERY DUE: Nov. 2019**
5. ALL AD's COMPLIED WITH AT THIS TIME SEE COMPLIANCE REPORT WITH RECORDS.
6. ALL JETPROP SERVICE INFORMATION LETTERS TO 14-560-02 COMPLIED WITH.

I certify that the aircraft identified above was inspected in accordance with current regulations of the FAA and is approved for return to service. Details are on file at this repair station under work order REC-2017-01

Date: 04-11-17

Authorized Signature: [Redacted]

Certificate #: [Redacted]

Form Rec-25

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YEAR 20 DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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Repair Station RN0R650X/EASA.145.6339

██████████s Field, Spokane, WA 99212 ██████████

Aircraft: N 709CH Serial #: 4636431 Total Time: 1210.7 Hobbs: 1210.7 Work Order #: REC-2017-01

THIS AIRCRAFT HAS BEEN MODIFIED BY THE ADDITION OF JETPROP STC ST00541SE IAW THE MANUFACTURER'S INSTRUCTIONS. THE JETPROP STC MODIFICATION INCLUDED THE PT6A-35 ENGINE, MT PROPELLER, LARGE HEADER TANK, ELECTRONICS INTERNATIONAL ENGINE INSTRUMENTS, SIX PLACE PORTABLE OXYGEN SYSTEM, VENTED OUTBOARD FUEL CAPS, GLARE SHIELD FANS, HEAT EXCHANGER BYPASS SYSTEM, JETPROP DOOR CABLES, THREE DUAL USB PORTS, AND SOUNDEX FLOOR INSULATION. A WEIGHT AND BALANCE WAS PERFORMED AND DATA FOR THIS CONFIGURATION WAS POSTED TO THE JETPROP FLIGHT MANUAL SUPPLEMENT. GROUND RUN UP WAS SATISFACTORY. ENGINE AND PROPELLER COMBINATION HAS BEEN DYNAMICALLY BALANCED. THIS AIRCRAFT IS CONSIDERED AIRWORTHY AND IS APPROVED FOR RETURN TO SERVICE.

NOTE: THE NOSE GEAR TIRE INSTALLED IS JETPROP PART # 560-04-112. ONLY THIS TIRE IS APPROVED FOR USE ON JETPROPS

IAW WITH THE JETPROP STC, ST00541SE, THE NEW FUSELAGE FATIGUE LIFE LIMIT IS 9251.6, AND THE NEW WING FATIGUE LIFE LIMIT IS 13424.6.

I certify the aircraft identified above was altered and inspected in accordance with current regulations of the FAA and is approved for return to service for work performed. Pertinent details are on file at this repair station under work order REC-2017-01.

Date: 04-11-17

Authorized Signature: Steven P. Nitchman

Certificate #: ██████████

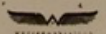
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**THIS AIRCRAFT
AND SATISFIES
FAR 91.407(b).**

DARWIN C. CONRAD, DERT

MAKE: Piper
 MODEL: PA-46-350P
 S/N: 4636431
 REG. NO: N799CH
 WORK ORDER:
 19739-02-2017

 **Western Aviation**

DATE: 4/18/2017
A/C TSN:
HOBBS: 1212.6

Repair Station No. GG6R560N
[Redacted]
[Redacted]

Avionics Entries

GNS430 units removed and sent to factory for WAAS upgrade. Installed dual GNS430W systems. See form 337. Systems installed per Garmin upgrade installation manual and STC/AML #SA01933LA-D. Units utilizing existing circuit breakers and wiring. Validated previous installation and found interfaced equipment are covered under STC/AML. Removed GA56 GPS antennas. Installed #2 GA35 GPS antenna in location of removed GA56 at station 149.5". Installed #1 GA35 GPS antenna at station 140.25". Installed flush patch at station 149.5" in place of removed GA56 antenna. See form 337, DER Package, and Form 8110-3 dated 4/12/2017. GPS systems approved for VFR only awaiting flight test and have been placarded as such. Placed AFMS for the GNS430W's into the aircraft POH. ICA for the GNS430W placed into the aircraft maintenance records. Aircraft weighed after installation complete. Tested pilot and aft left BOSE jacks, confirmed problem. Trouble-shot system, found pilot position fuse blown and aft left position wired incorrectly. Replaced fuse and re-wired aft left position. System tested, OK.

Maintenance Release

The aircraft and/or component(s) on N799CH was repaired and inspected in accordance with current FARs rules of the Federal Aviation Regulations and was found Airworthy for return to service. Pertinent details of the repair are on file at this repair station under Work Order No. 19739-02-2017.

DATE: 4/18/2017 SIGNED: [Redacted]

Barry Huck
Certified Repair Station No. [Redacted]

Work Order: 19739-02-2017
Printed by EBis 3 (datcomedia.com)

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4/19/2017

N709CH

Hobbs: 121.7

Garmin GNS430W systems previously installed and placarded as not approved for IFR have been ground and flight checked and found to meet the requirements of AC 20-138A for Follow-on IFR approval. GNS430W systems are approved for VFR/IFR enroute, terminal, non-precision approach operations including (GPS, Loran C, VOR, VOR-DME, TCAN, NDB, NDB-DME, RNAV, and approach procedures with vertical guidance, including: "LNAV/VNAV" and "LPV"). Installed FAA approved flight manual supplement for the GNS430W dated 7/31/2009 into Aircraft POH. Garmin GNS430W Pilots Guide must be available and used when flight navigation is predicted on the use of the GNS430W GPS System. Placard stating "GPS NOT APPROVED FOR IFR" has been removed. See form 337.

Signed

WESTERN AVIATION FAARS # [REDACTED]

SUN AVIATION, INC., Vero Beach, FL (VRB)

Date: 11/30/17

Engine Log

N709CH

Hobbs: 1322.4

PA46-350P

S/N: 4636431

Accomplished a compressor inlet and CT desalination wash per P&W PT6A-35 MM 71-00-00.

MAINTENANCE RELEASE: This aircraft, airframe, aircraft engine, propeller or appliance identified was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. All work was performed in accordance with applicable aircraft, engine and or appliance maintenance manuals and instructions. Pertinent details are on file at the repair station office, WO # S003334

Signature

CRS #

Sun Aviation, Inc, Municipal Airport, Vero Beach, FL 32961

SUN AVIATION, INC., Vero Beach, FL (VRB)

Date: 11/30/17

Aircraft Log

N709CH

Hobbs: 1322.4

PA46-350P

S/N: 4636431

Replaced pressure valve solenoid, installed "as removed" P/N 3D2784 per PA46-350P MM 91-30-00.

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Signature

CRS #

Sun Aviation, Inc, Municipal Airport, Vero Beach, FL 32961

YI
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Date: 11/30/17
Hobbs: 1322.4
WO#: A002924

Sun Aviation, Inc.
Avionics
Aircraft Log

A/C Reg#: N709CH
A/C Serial#: 4636431
A/C Model: PA46-350P

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- 1. Performed Yaw Amp alignment IAW Piper Airframe Maintenance Manual 761-876 Ch. 22-10-00.

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Signature: [Redacted] FAA CRS [Redacted]
Sun Avia [Redacted] 296 [Redacted]

Work Order:	Make:	Model:	Serial #:	Registration:	A/C Total Hours:	A/C Landings:	APU Hours:
709CH1217	Piper	PA46-350P	4636431	N709CH	1326.2	UNK	NA

1.) Replaced Airfoil De-ice Timer (P/N 3D2600-03) in accordance with Piper Maintenance Manual Sec: ATA: 30-10-00, Operational Check Good aircraft return to service for work performed.

I certify this aircraft has been inspected and/or repaired per the Piper Aircraft Technical Data in accordance with 14 CFR Part 91.409(F),(3).
The aircraft is approved for return to service with respect to the work performed.

Date: 12/20/2017 Location: APF Signature: [Redacted] Certification #: [Redacted]

Name: Craig A. Pereira
AERO TROPICS, LLC.

-----End-----

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Mullens Aviation

Labelle FL [REDACTED]

N709CH

Date: 03-09-2018 Hobbs: 1369.4

Replaced right flap push/pull rod P/N 85077-004. Adjusted right flap to match left flap. Lubed rollers and rod ends left and right side. Cycled flaps through full up and full down positions 7 times.

MAINTENANCE RELEASE: I certify that work completed has been opps checked OK and has been determined to be in airworthy condition at this time.

[REDACTED]
Tadeusz Szymanski A&P [REDACTED]

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Replaced right main upper torque link bushings, installed P/N 452-857 per PA46-350P MM 32-10-00. Replaced right and left main brake discs and pads, installed P/N 066-06200 and 164-21600 per PA46-350P MM 32-40-00. Replaced nose wheel aux nut clevis pin and washers, installed PN MS20392-1C19, MS24665-132 and NAS1149FN432P per PA46-350P MM 32-40-00. Replaced alternator from Rocket Engineering, installed rebuilt P/N ES-4009 SN H-P011600 per JetProp DLX MM 24-30-00. Found header tank only showing 18.5 gallons when full. Contacted Rocket Industries (JetProp) and EI technical support walked me through reprogramming EI instrument with original data for header tank calibration. Ops check ok at this time. Installed 1 washer on left and right main to attach proper alignment, per PA46-350P MM 32-10-00. Serviced AC system per PA46-350P MM 21-50-00. Serviced O2 bottle per PA46-350P MM 35-10-00. Adjusted left main squat switch per PA46-500TP MM 32-60-00. **Accomplished 5 year attach fitting/push rod inspection and Dinitrol treatment per PA46-350P MM 57-40-00, 55-30-00, 55-20-00 and 55-10-00.** Replaced battery 80amp circuit breaker, per PA46-350P MM 39-10-00.

MAINTENANCE RELEASE: This aircraft, airframe, aircraft engine, propeller or appliance identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. All work was performed in accordance with applicable aircraft, engine and or appliance maintenance manuals and instructions. Pertinent details are on file at the repair station office, WO# S003492. A.D.'s researched through Rev. 2018 09

Signature: [Redacted] CRS # [Redacted]
 Sun Aviation, Inc. Municipal Airport, Vero Beach, FL 32961 [Redacted]

YEAR
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DATE

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Sarasota Avionics PGD
 [REDACTED]
 Punta Gorda, FL 33982
 N709CH 04/29/2019 SN:4636431
 HOBBS: 1436.8 ACTT: 1436.8



AIR FRAME:

1. Inspected Airframe using PA-46-350P MM, Sec. 5-20-00 as a guide only.
2. Complies with Service Letter #1159B for replacement of fuel senders. Installed Piper kit (PN:88535-003), which includes 4 new fuel sending units, installed per Service Letter.
3. Aircraft fuel gauges calibrated using E.I. MVP-50 Manual. Used Jetprop recommended data points for calibration.
4. Complied with Service Bulletin #1204, calculation of wing life. Aircraft determined to be in 'normal usage' category - no change to wing life limit. Wing life limit still 13424.6 HRS.
5. Complied with Service Letter #1131A lubrication of Aileron sector bearings. Next due 12 months or 100 HRS.
6. Complied with Special Inspection for fuel transmitter and fuel strainer inspection. Found no problems. Next due 2 years or 500 HRS.
7. Installed 2 new RG-46 batteries, functional check performed - found OK
8. Airframe lubed IAW lubrication chart in MM #12-20-00.
9. Functionality tested ELT IAW FAR 91.207(D). Battery due Nov. 2019. Ops check - OK.
10. Serviced Hydraulic Reservoir with 5606 fluid.
11. AD compliance sheet updated.

I certify that this AIR FRAME has been inspected IAW an ANNUAL INSPECTION and was determined to be in airworthy condition.

[REDACTED], Eric Howe At [REDACTED]