

AIRCRAFT MAINTENANCE RECORD

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Date	Total Time	DESCRIPTION OF WORK PERFORMED SIGNATURE & CERTIFICATE NUMBER OF PERSON PERFORMING WORK
N5179D Airframe Service Meter: 2147.2 AFTT: 2147.2 Date: 2/12/2020		
Aircraft cleaned, disassembled and relocated to School of Missionary Aviation Technology in 2005. Engine removed for repair. Propeller sent for overhaul. Complete inspection of the airframe and all associated components carried out, defects recorded. Refer to later log entries for rectification.		
<u>AD Compliance</u>		
AD2011-10-09 Carried out by installation of new seat rails and inspection of pilot seats. Found within limits next due 2247.2hrs AFTT AD97-01-13 Complied with, by installation of new fuel and oil hoses @ 2147.2 hrs. AFTT. AD84-10-01R1 Complied with by installation of new bladder tanks, quick drains and Monarch gas caps. No defects found. AD79-10-14R1 Complied with by installation of vented Monarch gas caps. AD78-01-14 Carried out by installation of protective boot on battery relay. AD77-23-11 Carried out by securing coax cable to ELT antenna. AD96-12-22 Carried out by torquing oil filter adapter and applying torque paste. Next due at Oil Filter change. AD96-12-04 Complied with by installation of newer P/N pistons. AD63-15-01 Previously complied with by valve replacement on 8/1974 & 11/1977. Refer to engine log book at these dates. AD91-15-04 Previously complied with at propeller overhaul @ H&S Propellers, White Lake MI. AD93-05-06 Complied with by installation of new ACS Ignition switch. Inspection Next due at 4147.2 AFTT		
<u>STC / 337</u>		
- Carried out Rod Rawson Cessna 182 tricycle to conventional landing gear conversion STC SA03139AT. Refer to form 337 dated 2/20/2020 for further details. - D. Linsley - Installed P.Ponk Aviation upgraded rudder and elevator hinge bearings IAW STC SA02266AK. Refer to form 337 dated 2/20/2020 for further details. - Installed P.Ponk Aviation outboard landing gear support brackets and angles IAW STC SA4170NM in supplement to STC SA03139AT landing gear conversion. Refer to form 337 dated 2/20/2020 for further details. - D. Linsley - Installed Eagle Technology Co. under wing fuel quick drains IAW STC SA01380CH. Refer to form 337 dated 2/20/2020 for further details. - Installed Brackett Aircraft Co. foam replaceable induction air filter assembly IAW STC SA71GL, refer to form 337 dated 2/20/2020 for further details. - Installed William Barton Monarch gas cap assemblies IAW STC SA2376CE. Refer to form 337 dated 2/20/2020 for further details. - Installed B.A.S Inc Extendable tail pull handles IAW STC SA3812NM in supplement to C180 Gear Conversion STC SA03139AT. Refer to form 337 dated 2/20/2020 for further details. - Installed B.A.S Inc Pilot and copilot inertia reel seatbelts IAW STC SA2067NM. Refer to form 337 dated 2/20/2020 for further details. - Installed Steve's Aircraft fuel gascolator assembly IAW STC SA01026SE. Refer to form 337 dated 2/20/2020 for further details. - Installed AP Enterprises Door Stewards to pilot and copilots doors IAW STC SA01120SE. Refer to form 337 dated 2/20/2020 for further details. - Carried out Cleveland Wheels & Brakes conversion IAW STC SA62GL, to supplement C180 Gear Conversion STC SA03139AT, refer to form 337 dated 2/20/2020 for further details. - Carried out installation of EDM 900 Primary engine monitoring system IAW STC SA01435SE, refer to form 337 dated 2/20/2020 for further details. Fuel flow K Factor: 21.70 Fuel level calibration data (gal/reference level) Left: (0/3245, 10/2100, 15/1551, 20/1128, 27.5/519) Right: (0/3255, 10/2195, 15/1552, 20/1161, 27.5/518) - Carried out removal of generator electrical system and the installation of a Hartzell Engine Technologies / Plane Power 70A alternator and voltage regulator IAW STC SA10682SC and AC43.13-1B Ch. 11 wiring guidelines. Refer to form 337 dated 2/20/2020 for further details. - Installed Floats Alaska LLC Gar Aero oversized MLG wheel assemblies with 8.5x10 tires, carried out IAW STC SA4305WE. Refer to form 337 dated 2/20/2020 for further details. - Installed McFarlane Aviation inboard aft flap roller service kit IAW STC SA01074WI. Refer to form 337 dated 2/20/2020 for further details. - Installed Rosen pilot and copilot sun visors IAW STC SA00871SE. Refer to form 337 dated 2/20/2020 for further details. - Installed Great Lakes Aero Products windscreen with no center strip IAW STC SA301GL. Refer to form 337 dated 2/20/2020 for further details. - Installed Whelen Orion wingtip and rear nav LED strobe lights P/N: OR6501G OR6501R Orion5001V, carried out IAW STC SA800EA and AC43.13-1B Ch. 11 wiring guidelines. Refer to form 337 dated 2/20/2020 for further details. - Installed Whelen Parmetheus Plus PAR36 LED Landing / Taxi lights, carried out IAW STC SA00344BO and AC43.13-1B Ch. 11 wiring guidelines. Refer to form 337 dated 2/20/2020 for further details. - Installed Dual Garmin G5 electronic flight instruments as a primary horizon and EHSI, also installed supporting Garmin GMU 11 magnetometer at FS+138.0" and GAD 29 data interface at FS +5.0". Carried out IAW STC SA01818WI. Refer to form 337		

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dated 2/20/2020 for further details. Altimeter calibration carried out by Beacon Aviation 1-2020. G5 panel pitch offset is 13.5deg.

STC / 337 continued...

- Installed L3 Lynx NGT9000D Transponder IAW STC SA02444AK and AC43.13-1B Ch. 11 wiring guidelines. Refer to form 337 dated 2/20/2020 for further details. Certification carried out by Beacon Avionics 1-2020.
- Installed Garmin GNS430W GPS/Nav./Comm. IAW STC SA01933LA-D and AC43.13-1B Ch. 11 wiring guidelines. Refer to form 337 dated 2/20/2020 for further details. Ramp nav. test carried out, found serviceable.
- Upper, lower and leading edge wing skins replaced. All flight control surfaces had new skins installed. Balance check carried out, all found within limits. Refer to form 337 dated 2/20/2020 for further details.
- Installed heavy duty steel MLG axles P/N: 144003-1, to suit a Cessna 180 post 1964. Refer to form 337 dated 2/20/2020 for further details.
- Installed TSO Approved Garmin GMA 345 Audio Panel P/N: 010-01319-01 S/N: 3Z0005953. Carried out IAW Garmin GMA 345 Installation manual 190-01878-02 Revision 3, and AC43.13-1B Ch. 11 wiring guidelines. Function test carried out, no defects found. Refer to form 337 dated 2/20/2020 for further details.
- Installed TSO Approved Garmin GTR 225A VHF Comm. P/N: 010-01026-50 S/N: 00049F02A5006049. Carried out IAW Garmin GTR 225 Installation manual 190-01182-02 Revision F and AC43.13-1B Ch. 11 wiring guidelines. Function test carried out, found serviceable. Refer to form 337 dated 2/20/2020 for further details.
- Installed ACR Artex ELT 345 Emergency Beacon IAW installation manual Y1-03-0282 Rev. J and AC43.13-1B Ch. 11 wiring guidelines and AC43.13-2B Section 206 Figure 2-9 for the attach shelf. Function test carried out, tested serviceable. Refer to form 337 dated 2/20/2020 for further details. **Registration expires 12/26/2021 Battery expires 4/30/2025**
- Installed Trans-Cal SSD120-35C-RS232 Altitude encoder IAW Installation manual 881625 Rev. A and AC43.13-1B Ch. 11 wiring guidelines and AC43.13-2B Section 206 Figure 2-9 for the attach shelf. Calibration carried out by Beacon Aviation on 1-2020. Refer to form 337 dated 2/20/2020 for further details.

General:

- Light surface corrosion removed from the inside of the fuselage skins, area cleaned and primed.
- New boot cowl skin with static ports fabricated and installed.
- Replaced cabin roof skin between carry through spars.
- Repaired copilots door, hinge attach area with a doubler due to hinge attach rivet holes being oversized. Carried out IAW AC43.13-1B Pg. 4-16 Figure 4-32.
- Painted fuselage with epoxy primer, top coat Matterhorn White single stage polyurethane enamel. Metallic color stripes: Nason Single stage full-thane enamel Ford 46 DK Jade 43517, National fleet color blue G8125 and Pepper Grey N0323.
- Installed new McFarlane Aviation seat rails P/N: MC0511293-1, MC0511293-2, MC0511293-3, and MC0511293-4.
- Removed, aligned and welded pilots seat base roller housing, function test carried out, serviceable.
- Reinstalled diamond doubler to the floor for the rear seat aft attach point.
- Installed and rigged all new flight control cables.
- Installed left and right fuselage static port adapter plates.
- Fabricated and installed antenna doubler plates for VHF (FS +58.0"), GPS (FS +46.0" & +88.0"), Transponder (FS +108.0"), ELT (FS +88.0) and marker beacon antenna (FS +121.0"). Carried out IAW AC43.13-1B and AC43.13-2B Section 309.
- Installed instrument panel to firewall brace as per Cessna 100 series IPC.
- Installed cabin refueling grab handles.
- Installed cabin floor seat belt attach brackets.
- Installed cabin steps.
- Fabricated and installed new windows in the cabin and pilots doors. Installed pilot's window assemblies in door frames.
- Installed new pilots and copilots door window latches.
- Fabricated and installed new airframe rigid fuel lines, leak check carried out, no defects found.
- Removed, cleaned and inspected fuel selector valve, all seals replaced. Reinstalled and leak check carried out, no defects found.
- Installed new FAA/PMA AMC Fuel selector solid plate P/N: PA100180-55
- Installed left wing fuel tank vent line and aligned behind the strut.
- Installed new ACS ignition key and door lock set A-510-5K. Ignition switch relocated to center by the engine controls with added start position included.
- Installed Cessna service kit SK210-174B pilot's seat secondary stop inertia reel.
- Installed fire extinguisher under passenger seat.
- Installed all placards and required markings IAW Cessna 182A TCDS 3A13 and 100 series S/M.
- Installed new pilots, copilots and baggage door seals.
- Reinstalled wing strut tie down rings.
- Reinstalled pilots and copilots door window stay arms and new springs.
- Removed and paint stripped pilots and copilots control yokes. Control yokes powder coated and reinstalled with new McFarlane universal joints P/N: MC0411257.
- New firewall inside insulation blanket installed.
- New rudder pedal trim covers fabricated as per original and installed.
- Installed passenger overhead vents

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		• Installed rudder pedal skid plates to protect the carpet. • Installed new passenger seat belts. Installed new pilots inertia seat belt system, refer later item under STC. • Installed new custom made interior burn certified carpets. • Installed new Airtex front seat covering kits. • Installed new precut vinyl headliner from Aircraft Spruce. • Recovered and installed original interior trim to pilots and copilots doors, and front lower panels by the pilot's legs. Fitted and installed new plastic side trim to all other locations. • Stripped and repainted in Matterhorn white metal interior trim pieces, reinstalled. • Installed new Eagle Technologies fuel bladders P/N:0726001-10E Mfg. date 11-2007 • Installed fuel tank finger screens. • Installed new McFarlane Aviation resistive fuel senders P/N: MC0726110-1. • Flushed gas tanks down to carb inlet, no contamination found. Fuel supply flow check carried out at carb inlet. Left: 31gal/hr. Right: 31gal/hr. Both: 38gal/hr. • Cabin seaplane V brace fabricated and installed as per Cessna 180 IPC Fig. 122. • Installed doubler on the firewall to allow for attachment of the avionics cooling fan. New avionics cooling fan installed behind the instrument panel. P/N:CRB-6457 S/N:003-016-085 • Installed new FAA/PMA heavy duty steel main landing gear legs from XP Modifications. P/N PP0741001-7 & PP0741001-8. S/N: PP07-7 & PP07-8. • Fabricated and installed new MLG brake lines. • Removed, cleaned and inspected MLG brake master cylinders. Seals replaced, system serviced with fluid and tested. • Installed parking brake system. • Installed and tested heated stall warning vane. • Installed heated Pitot tube and associated plumbing to the instrument panel, tested serviceable. • All wiring to the aircraft was completely replaced. Carried out IAW AC43.13-1B Chapter 11 and associated installation manuals for each installed component. Systems and wiring protected using circuit breakers as per above for selection. • Static balance check carried out on ailerons, elevator and rudder. Found within limits. • All flight controls installed and rigged as per Cessna 100 series service manual D138-1-13. Independent inspection of flight controls carried out, found serviceable. • Installed McFarlane Aviation flap roller service kit MCSK100. • New McFarlane Aviation Aileron hinges installed P/N: MC0523816-1. • All flight control pulleys were removed, cleaned, inspected and replaced as required. • Replaced left wing aileron pushrod aft rod end P/N: S1819-3. • Modified and installed tail cone stinger to suit tail wheel installation. • Cleaned, inspected and installed Scott 3400 tailwheel assembly with new axle bolt P/N: 3400-ABI-3236-C2. • Fabricated and installed rear empennage rudder cable exit fairings. • Installed new RAMI AV-525 VOR/LOC/GS Nav. antenna on vertical stabilizer. (FS +218.0") • Installed new RAMI AV-801 GPS antenna for the Garmin GNS430W. • Installed new RAMI AV-64 Marker Beacon antenna. • Installed new RAMI AV-74 Transponder antenna. • Installed two RAMI AV-529 VHF Comm. antennas. • Installed new RAMI AV570 antenna coupler. • Installed new fiberglass vertical stab top cap. • Installed new horizontal stabilator outboard fiberglass caps. • Removed, cleaned, inspected and serviced horizontal stab jacks. Reinstalled and rigged. • Installed and adjusted flap selector bump stop in front of handle. • Removed, cleaned and painted elevator rear pushrod due to light surface corrosion. Elevator rear bell crank bearings replaced. • Fabricated and installed installation shelf for the GMU11 magnetometer in the empennage at FS +138.0" and GAD 29 Data Interface box at FS +5.0". Carried out IAW AC43.13-2B Section 206 Figure 2-9. • Installed new Concorde RG-35AXC 33A/Hr. battery. • Installed new Lamar / Sky Tec master solenoid P/N: STS-A12 on the battery box. • Installed new Lamar / Sky Tec starter solenoid P/N: STS-S12 on the firewall. • Carried out calculated Electrical Load Analysis dated 2-13-2020. Aircraft electrical system continuous draw is at 30.37% of alternator capacity. In optimal condition, the battery will maintain the continuous load for 1.55 hours. • Reweighed aircraft. Refer W&B form dated 1-14-2020. Empty weight is 1777lbs at 36.1". • Installed new SIRS Navigator magnetic compass to the glare shield. Compass P/N: NV2C-12V S/N: 746504-09. Interference and calibration check carried out, all headings found to have $\leq 1^\circ$ error. • Fabricated and attached cabin speaker overhead bracket. New 6.5" round cabin speaker P/N: 6C5FR installed. • Installed Cessna map light switch P/N: S1501-1 into left fwd. door pillar trim, insulated terminals with protective cover IAW guidelines of AD2001-23-03. Installed two LED red/white map lights P/N: 754RW-14V into overhead plastic trim to supplement existing red flood light. Wiring and circuit protection carried out IAW AC43.13. Negligible load added to system of 0.06A. Included in overall aircraft ELA dated 2-13-2020. • Fabricated and installed new magneto p-leads.

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		- Repaired engine air intake / air box by replacing top plate with a serviceable one from another assembly. McFarlane Aviation carb heat air box service kit CCH-KT-9 installed including new end bearings, shaft and actuator arm. - Cleaned, repaired and repainted engine cooling baffles, some new baffles fabricated. Baffle seals installed and adjusted to suit cowling. - Repaired several cracks in upper and lower engine cowls using doubler IAW AC43.13 Page 4-32 Fig 4-16. - Fabricated and installed new engine cowl inspection door skins. - Installed and rigged carb heat control cable P/N:MC0411090-22CH - Installed adjusted, length and rigged cabin air and cabin heat control cables. P/N:MC0411090-22CH - Removed, cleaned and inspected fuel primer hand pump. All seals in plunger replaced, new fuel primer lines fabricated. Four new primer nozzles installed P/N: AN4022-1. Leak and function test carried out, no defects found. - Removed, cleaned and inspected engine mount frame, repainted frame and installed with new hardware. - Fabricated and installed new carb to fuel flow transducer, and transducer to gascolator flexible fuel lines. Fabricated and installed flexible lines for the manifold and oil pressure sensors. Carried out using Aeroquip type 303 and IAW AC43.13-1B Page 9-21 Figure 9-8. Leak check carried out, no defects found. - Installed and rigged engine control cables with new attach hardware. Cable P/N: MC600-72(Mixture) MCS1222-1S (Throttle) MCS1223-4(Prop). Rigging and function check carried out, found serviceable. - Fabricated and installed a new stationary instrument panel overlay using 0.090" 2024T3 Alclad. Carried out IAW AC43.13-1B and AC43.13-2B Section 2 Ch. 203. - Installed overhauled ASI, installed serviceable VSI, & altimeter. New pitot static plumbing and fittings installed to all instruments. Pitot static leak check carried out, found serviceable. IFR Certification (Transponder, altitude encoder, altimeter and both GS's) carried out by Beacon Avionics 1-2020. Refer later logbook entry for certification. - Installed new Mid-Continent brushless turn coordinator P/N: 1394T100-7B. - Installed Davtron M800 clock. - Prop overhauled by H&S Propellers refer to their W/O W47775 and form 8130-3 dated 10-22-2018. Propeller installed on engine with new attach hardware. Function test carried out, found serviceable. - Serviceable repaired propeller governor P/N: C2903A/T1 S/N: 760774 installed on the engine and adjusted to bring max static rpm to within limits. Tested serviceable. Refer H&S Propeller order no: 47469 dated 1-31-2018. - Installed and rigged overhauled Marvel-Schebler carburetor P/N: 10-4893-1 S/N: MS026B04. - Installed removed serviceable oil cooler ex. N6741E P/N: 20585A S/N: B96-231-37, function and leak check carried out, found serviceable. - Installed overhauled exhaust system on the engine with new gaskets, leak check carried out, no defects found. - Installed engine crankcase breather tube and flexible hose on the engine. 500 hourly inspection carried out on left and right magneto, internal components replaced as required. Magnetos installed on to engine and engine timing carried out, tested serviceable. Bendix Magneto P/N: 10-79020-10 (S6RN-25) S/N: 4091825 P/N: 10-79020-10 (S6RN-25) S/N: 4091831 - Installed new SAF-AIR oil quick drain valve P/N: S6250. - Installed 6 new Tempest UREM-40E spark plugs into bottom spark plug holes. Cleaned, tested and installed 6 serviceable Champion REM-40E spark plugs into top plug holes. - Installed overhauled Prestolite starter motor P/N: MZ4222 S/N: A211038. - Installed JPI engine fuel flow transducer between carb and gascolator, leak check carried out and unit covered with fire sleeve. K Factor set at 21.70 from the factory. - Carried out engine cylinder internal borescope inspection prior to installation of spark plugs, no defects found. - Installed Whelen 7170000 LED landing light flasher box for Parmetheus Plus PAR36 lights IAW AC43.13-1B Ch. 11 wiring guidelines and 7170000 wiring guide, function test carried out, found serviceable. - Installed new Telex 100TRA hand mic, tested serviceable. Disassembled, cleaned and inspected engine, repairs carried out as necessary. Measured that all parts were within service limits IAW Continental O-470L Series Engine Overhaul Manual X30586 and all applicable service bulletins. Magnafluxed all steel parts; dye-penetrant inspected crankcase, cylinder heads and rocker covers. Polished crankshaft journals. Installed new bearing set P/N: SA537401-A3 M10, SA63036 M10, and SA630826 M10 on main and rod journals. Honed all cylinders. Ground valves and valve seats and leak checked as per manufacturer recommendations. Installed new camshaft P/N:EQ6995. Replaced #6 intake rocker. Installed new bushings in all crankshaft dampers, P/NAEC350998. Installed new counterweight pins, P/N:643626-101, new pin plates P/N:635623, and snap rings P/N:629104. Installed new hydraulic lifters- exhaust P/N:653877 and intake P/N:653888. Installed new pistons P/N:SA640518; all weighed 1062 except #6, which was 1063, to ensure proper balance. Installed new piston pins P/N:SA539467. Installed new Titan ECI ring set P/N:CC106 and ensured proper end gaps as per ICI SI#94-4-1 Rev. 22. Installed new exhaust studs P/N:401893, 1 on cyl. #2, 3 on cyl. #3, 3 on cyl. #5, and 2 on cyl. #6. Replaced #6 rocker cover. Installed a new front main seal P/N:SA641250, and reinstalled the felt washer. Replaced all gaskets, crush washers, and o-rings using gasket set SA646546-A1. Oil pump assembly was replaced and oil filter adapter was installed as per Cessna AD96-12-22. Replaced starter adapter cover P/N:534957. Used 0.041" safety wire on all necessary internal engine components. Complied with all applicable service bulletins and AD's, refer to the master list for details. Engine reinstalled into the aircraft with new Lord rubber mounts. - D. Linsley

Signed: _____ Robert Hovenden A&P _____

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Beacon Aviation of Michigan, Inc. [Redacted] Grand Ledge, MI 48837 LOG ID# 8476 23-January-2020 WO# 8044 N5179D S/N 51279 CESSNA 182A Pg 1 / 1 Calibrated G5 S/N: 43Q019867 EFI & S/N: 43Q019851 EFI Altitude Indications IAW Section 6.3.7.3 of P/N: 190-01112-10 STC Installation Manual. G5 P/N: 011-03869-00 S/N: 43Q019867 Attitude Type Electronic Flight Instrument's Altitude Indication was tested to 20,000 feet, and complies with FAR 91.411 IAW FAR 43, App. E (b). G5 P/N: 011-03809-00 S/N: 43Q019851 HSI Type Electronic Flight Instrument's Altitude Indication was tested to 20,000 feet, and complies with FAR 91.411 IAW FAR 43, App. E (b). Altimeter P/N: 5934P-3 S/N: 397185 was tested to 20,000 feet, and complies with FAR 91.411 IAW FAR 43, App. E (b). NGT-9000 S/N: LXEL2290 Mode A/C/S/ADS-B transponder system was tested and complies with FAR 91.413 IAW FAR 43 App. E. Altitude reporting system was tested and complies with FAR 91.411 IAW FAR 43, App. E (C). Static system was tested and complies with FAR 43, App. E (a). This aircraft airframe, aircraft engine or appliance identified above was repaired/inspected in accordance with current regulations of the Federal Aviation Agency and is hereby approved for return to service. [Redacted Signature] 1-23-2020 Inspector/Authorized Signature Date for Beacon Aviation of Michigan, Inc. CRS # VOOR755X		

N5179D | Airframe | Service Meter: 2147.2 | AFTT: 2147.2 | Date: 4/16/2020 04/27/2020

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

Signed: [Redacted Signature] Duane Linsley A&P [Redacted] IA

N5179D | Airframe | Service Meter: 2151.7 | Date: 5/6/2020

- Adjusted EDM900 fuel flow K factor from 21.70 to 19.70.
- Adjusted both Garmin G5 pitch offset from +3.8deg to +1.8deg to align with level pitch attitude in standard cruise.
- Pilot reported aircraft fly right wing low. Adjusted right wing angle of incidence by moving the bush to maximum right wing lift position, torque check carried out of right wing aft attach bolt.
- Carried out oil and filter change, inspected filter for contamination, minor amount of ferrous material observed and retained for reference, typical of newly overhauled engine. Repeat oil and filter change in approximately 20 hours. Engine serviced with 10qt of Phillips SAE20W50 Type M oil. Filter P/N:
- Replaced EDM900 cylinder & EGT probe, tested serviceable. P/N: M-111

Signed: [Redacted Signature] Robert Hovenden A&P [Redacted]

N5179D | Airframe | Service Meter: 2155.6 | Date: 5/7/2020

- Replaced Oil cooler P/N off: CAM627392, S/N off: B96-2311-37 with P/N on: CAM627392 S/N on: B20-16227-9 Niagara congealing oil cooler, leak check carried out, found serviceable.
- Replaced both MLG tires with new Air Trac 8.50-10x6 P/N: AA1N4. Inflated to 15psi. Wheel bearings cleaned and greased.
- Filed Flap 0 degree slot to allow more positive engagement.
- Adjusted LH wing angle of incidence by moving rear attach bushing, torque check carried out.
- Adjusted both flap outboard rear roller washers for better alignment on flap tracks.
- Installed new gas cap main seals P/N: GAR0998

Signed: [Redacted Signature] John Turner A&P [Redacted]

N5179D | Airframe | Service Meter: 2163.6 | Date: 5/15/2020

- Replaced crankshaft oil seal. P/N 641250. Replaced hardware on spinner backing plate. Replaced propeller nuts and torque check carried out.
- Installed new drain valve on fuel gasculator, P/N CAV-110. (Rob Hovenden)

Signed: [Redacted Signature] Levi Moody A&P [Redacted]

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N5179D | Engine | Service Meter: 2147.2 | Eng. TT: 4248.1 | Eng. TSO: 1484.8 | Date: 2/12/2020

- Serviceable repaired propeller governor P/N: C2903A/T1 S/N: 760774 installed on the engine and adjusted to bring max static rpm to within limits. Tested serviceable. Refer H&S Propeller order no: 47469 dated 1-31-2018.
- Installed and rigged overhauled Marvel-Schebler carburetor P/N: 10-4893-1 S/N: MS026B04.
- Installed removed serviceable oil cooler ex. N6741E P/N: 20585A S/N: B96-231-37, function and leak check carried out, found serviceable.
- Installed engine crankcase breather tube and flexible hose on the engine.
- Installed overhauled exhaust system on the engine with new gaskets, leak check carried out, no defects found.
- 500 hourly inspection carried out on left and right magneto, internal components replaced as required. Magnetos installed on to engine and engine timing carried out, tested serviceable. Bendix Magneto P/N: 10-79020-10 (S6RN-25) S/N: 4091825 P/N: 10-79020-10 (S6RN-25) S/N: 4091831
- Installed new SAF-AIR oil quick drain valve P/N: S6250.
- Installed 6 new Tempest UREM-40E spark plugs into bottom spark plug holes. Cleaned, tested and installed 6 serviceable Champion REM-40E spark plugs into top plug holes.
- Installed overhauled Prestolite starter motor P/N: MZ4222 S/N: A211038.
- Carried out engine cylinder internal borescope inspection prior to installation of spark plugs, no defects found.
- Disassembled, cleaned and inspected engine, repairs carried out as necessary. Measured that all parts were within service limits IAW Continental O-470L Series Engine Overhaul Manual X30586 and all applicable service bulletins. Magnafluxed all steel parts; dye-penetrant inspected crankcase, cylinder heads and rocker covers. Polished crankshaft journals. Installed new bearing set P/N: SA537401-A3 M10, SA63036 M10, and SA630826 M10 on main and rod journals. Honed all cylinders. Ground valves and valve seats and leak checked as per manufacturer recommendations. Installed new camshaft P/N: EQ6995. Replaced #6 intake rocker. Installed new bushings in all crankshaft dampers, P/NAEC350998. Installed new counterweight pins, P/N: 643626-101, new pin plates P/N: 635623, and snap rings P/N: 629104. Installed new hydraulic lifters- exhaust P/N: 653877 and intake P/N: 653888. Installed new pistons P/N: SA640518; all weighed 1062 except #6, which was 1063, to ensure proper balance. Installed new piston pins P/N: SA539467. Installed new Titan ECI ring set P/N: CC106 and ensured proper end gaps as per ICI SI#94-4-1 Rev. 22. Installed new exhaust studs P/N: 401893, 1 on cyl. #2, 3 on cyl. #3, 3 on cyl. #5, and 2 on cyl. #6. Replaced #6 rocker cover. Installed a new front main seal P/N: SA641250, and reinstalled the felt washer. Replaced all gaskets, crush washers, and o-rings using gasket set SA646546-A1. Oil pump assembly was replaced and oil filter adapter was installed as per Cessna AD96-12-22. Replaced starter adapter cover P/N: 534957. Used 0.041" safety wire on all necessary internal engine components. Complied with all applicable service bulletins and AD's, refer to the master list for details. Engine reinstalled into the aircraft with new Lord rubber mounts.

Signed: [Signature] Duane Linsley A&P [Signature]

N5179D | Engine | Service Meter: 2147.2 | EngTT: 4248.1 | Eng TSO: 1484.8 | Date: ~~4/16/2020~~ 04/27/2020

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

Signed: [Signature] Duane Linsley A&P [Signature] IA

N5179D | Engine | Service Meter: 2151.7 | Date: 5/6/2020

- Adjusted EDM900 fuel flow K factor from 21.70 to 19.70.
- Carried out oil and filter change, inspected filter for contamination, minor amount of ferrous material observed and retained for reference, typical of newly overhauled engine. Repeat oil and filter change in approximately 20 hours. Engine serviced with 10qt of Phillips SAE20W50 Type M oil. Filter P/N: AA48110-2
- Replaced EDM900 cylinder 6 EGT probe, tested serviceable. P/N: M-111

Signed: [Signature] Robert Hovenden A&P [Signature]

N5179D | Engine | Service Meter: 2155.6 | Date: 5/7/2020

- Replaced Oil cooler P/N: CAM627392, S/N: B96-2311-37 with P/N: CAM627392 S/N: B20-I6227-9 Niagara congealing oil cooler.

Signed: [Signature] John Turner A&P [Signature]

N5179D | Engine | Service Meter: 2163.6 | Date: 5/15/2020

- Replaced crankshaft oil seal, P/N 641250. Replaced hardware on spinner backing plate. Replaced propeller nuts and torque check carried out.

Signed: [Signature] Levi Moody A&P [Signature]

**DESCRIPTION OF ALL OPERATIONS PERTAINING
TO AIRWORTHINESS DIRECTIVES, SERVICE BULLETINS,
SERVICE LETTERS, AND MINOR ADJUSTMENTS**

N5179D Propeller Service Meter: 2147.2 Prop TSO: 0 hours Date: 2/12/2020			URE
• Prop overhauled by H&S Propellers refer to their W/O W47775 and form 8130-3 dated 10-22-2018. Propeller installed on engine with new attach hardware. Function test carried out, found serviceable. • Serviceable repaired propeller governor P/N: C2903A/T1 S/N: 760774 installed on the engine and adjusted to bring max static rpm to within limits. Tested serviceable. Refer H&S Propeller order no: 47469 dated 1-31-2018. • Spinner and backing plate, cleaned, inspected and repainted. Installed on propeller with new attach hardware. • Propeller dynamic balance carried out using ACES 1015 Sport. Final solution 0.02"/sec @ 110deg. (Blade #2 is 0 degrees)			
Signed: [Redacted] Robert Hovenden A&P [Redacted]			
N5179D Propeller Service Meter: 2147.2 Prop TSO: 0 hours Date: 4/16/2020 04/27/2020			
I certify that this propeller has been inspected IAW an annual inspection and was determined to be in an airworthy condition.			
Signed: [Redacted] Duane Linsley A&P [Redacted] IA			
N5179D Propeller Service Meter: 2163.6 Date: 5/15/2020			
- Replaced crankshaft oil seal, P/N 641250. Replaced hardware on spinner backing plate. Replaced propeller nuts and torque check carried out.			
Signed: [Redacted] Levi Moody A&P [Redacted]			