



# AIR TIME AND

DATE



Aviation Classics, Ltd.  
Reno-Stead Airport  
4825 Texas Avenue  
Reno NV 89506

775-972-5540

OR COMPLETE

BROUGHT FORWARD

Date: 10/22/2014; Aircraft: N39AY; Type: L-39C; S/N: 332703; Hobbs: 69.2; Total Time: 2017.1  
**AIRFRAME:** Performed 100Hr/12 Month Inspection IAW approved aircraft inspection program. GNS430 tray was interfering with unit. Modified tray. Installed unit after flight to Stead for Annual. 011-00280-10 sn: 97130007. IFR Inspection to 25,000 ft. Leak checked the main side of the pitot and static systems. Repaired a minor static leak. Serviced the sump bottles at the auxiliary pitot and static system. Operational checks normal. Pilot and Co-pilot's altimeters, primary and standby static systems tested to 25,000 ft. in accordance with Appendix E of Part 43, as required by FAR 91.411. Transponder tested to comply with Appendix F of Part 43, FAR 91.413. Pre-inspection engine run & system checks completed. Removed inspection and access panels for 12 mo / 100 hr inspection as required. Jacked aircraft, removed canopies and seats for maintenance. Removed aft section for maintenance. Opened all access panels. Checked forward & aft canopies & frames for general condition, security of attachment. Checked acrylic glass for general condition. Checked forward & aft canopy seals. Painted RED line up stripes on FWD & AFT canopy frames to visually assure canopies are down and locked. Checked aircraft ballast for security of attachment, general condition & corrosion. Checked exterior lights for operation, condition & security. Checked cockpit lighting for operation, condition & security. Checked exterior fuselage skin for general condition, loose or smoking rivets & corrosion. Checked fuel lines for condition & security & checked fuel vent system for any obstructions. Checked PSI in hydraulic accumulators at zero system pressure, serviced both accumulators to 745 psi. Cleaned N2 sight glass, inspected hydraulic system, found hydraulic reservoir over serviced, drained fluid. Inspected and lubed wings. Inspected Engine tail pipe and airframe in engine area, inspected tail section, inspected RAT system.



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Removed NLG and 2 ea. MLG wheel and tire assemblies. Removed cleaned and inspected wheel bearing assemblies. Lubricated with Union 76 Red Multiplex #2 wheel bearing grease. Reinstalled bearings and secured / safetied. Inspected wheel well areas IAW 12 mo / 100 hr inspection checklist. Greased NLG & MLG strut assemblies with Aeroshell #6 grease. Inspected brakes and anti skid units and wiring. Performed power on checks of electrical systems as required. Conducted lubrication IAW checklist. Lowered Ram Air Turbine for inspection and brush measurements. Brush length ok. Reinstalled cover. Depaneled ECS panel and inspected system components. Removed air filter assy for inspection and cleaning as required. Serviced ECS turbo-cooler assy with 1 pint of Exxon 2380 turbo oil and drained as required per servicing instructions. Removed, inspected and cleaned 3 each hydraulic filter assy's. Reinstalled when completed. Depaneled igniter access panels, Sapphire control box access, & voltage regulator access panel for inspection IAW inspection checklist. Checked N2 & O2 bottles to verify hydrostatic test dates. Bottle hydro next due APR 2017. Connected hydraulic test unit to aircraft. Performed gear swing through 8ea. full cycles (4 times from forward cockpit, 4 times from aft cockpit). Operational checked normal. No leaks noted. Tested hydraulic system, flaps, speedbrakes, brakes, RAT, operational checked normal. Removed batteries and replaced with two new RG35AXC Sealed Batteries. Secured batteries in nosebay. Inspect rear seat plexiglass blast shield for condition. Installed customer supplied blast shield between fwd and aft seats using US hardware and seals. Removed FWD & AFT cockpit back pack parachutes, sent in for service. Sublet Service Completed: 9/24/2014 Description: Parachute,AFT, PO #: 0115845. Reinstalled parachutes in aircraft. Air conditioning and air shower system blowing hot air only during pre-inspection runs. Inspected cockpit turbine de-ice/heat slide valve in engine compartment and found valve in

CARRIED FORWARD

# ENGINEERING RECORD

## INSPECTION, REPAIRS & REPLACEMENT

ENTR



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SIGNATURE

LICENCE NUMBER

place, but electric motor missing. Found damaged 200 Ohm sensor in system. Installed serviceable replacement motor pn LUN 15578-02-8 and troubleshot system. Checked A/C wiring and all 6 resistive temperature probes for continuity and proper resistance. Found an open circuit condition at probe cannon plug. Repaired damaged wiring at cannon plug and checked for continuity. Secured all cannon plugs and probes. Sent 200 Ohm probe for repair. Reinstalled 200 Ohm Probe in-line and installed just below cockpit turbine de-ice/heat slide valve in engine compartment. Sublet Service Completed: 9/30/2014, Description: Sensor,Temp PO #: 0116085. Removed aircraft from jacks. Checked hydraulic fluid levels and serviced as required. Verified ALL work CW and FOD inspection prior to installation of panels. Reinstalled seats, canopies, aft section. Install ALL access panels removed for 12 mo. / 100 hr inspection. Inspect and clean as required prior to panel installation. Prep aircraft for Post inspection ground runs. Checked hydraulic fluid level, Sapphire oil level, fuel, engine oil levels and nitrogen quantity. Ran aircraft and cycled air conditioning and air-shower systems. Found air conditioning system pushing only hot air and air-shower system now operative. Checked for wiring throughout rear seat A/C controls, found wire to be missing from A/C control unit to A/C switch. pin B to pin B not there! Repaired wiring and retested air conditioning system. Ops checks all good on both A/C systems. Post maintenance runs completed, no discrepancies noted. Aircraft has been inspected in accordance with the scope and detail of the FSDO-approved Aero Albatross Maintenance Inspection Program dated July 11, 2002, and found to be in a condition for safe operation. Type of inspection: 12 Month Condition Inspection. Pertinent details of work accomplished are file at Aviation Classics Ltd on Shop Order # 18674.

Signed: [REDACTED]

### AVIATION CLASSICS, LTD. FAA REPAIR STATION NA3R703L ALTIMETER CALIBRATION

Test Point	Ind. Error	Test Point	Ind. Error	Test Point	Ind. Error
0	+5	8000	+5	30000	
500	+5	10000	0	35000	
1000	+5	12000	0	40000	
1500	+10	14000	0	45000	
2000	+5	15000	0	50000	
2500	0	16000	0	55000	
3000	+10	18000	0	60000	
4000	+10	20000	+10	70000	
5000	+20	22000	0	80000	
6000	+20	25000	+20		

DATE 18 JUL 14 SIGNED [REDACTED]

W.O.# 18674  
PILOT

### AVIATION CLASSICS, LTD. FAA REPAIR STATION NA3R703L ALTIMETER CALIBRATION

Test Point	Ind. Error	Test Point	Ind. Error	Test Point	Ind. Error
0	+5	8000	+15	30000	
500	+5	10000	0	35000	
1000	+10	12000	0	40000	
1500	+15	14000	+5	45000	
2000	+10	15000	+20	50000	
2500	+10	16000	+25	55000	
3000	+15	18000	+20	60000	
4000	+15	20000	+20	70000	
5000	+20	22000	0	80000	
6000	+20	25000	0		

DATE 18 JUL 14 SIGNED [REDACTED]

W.O.# 18674  
CO PILOT



# ENGINEERING RECORD

## INSPECTION, REPAIRS & REPLACEMENT

ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.

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mounted tank. Mfg. hose from tank to pump. Assisted with the rerouting and securing of the smoke system supply hose. Rechecked work and assisted with test run of system. Finished hose installation. Tested system during run up. OPS check good. Change tires (customer supplied 3 tires and oring kits). Deflated and removed left wheel assembly. Separated wheel halves, cleaned and inspected and bearings. Greased bearings using Mobile SHC100 grease. Inspected brakes, no problems noted. Reassembled wheel installing customer supplied new Michelin Air 24x7.25-12 Tire sn.4248S00432 and new o-ring. Installed new valve stem in wheel assembly and serviced to 95 psi nitrogen. Deflated and removed right wheel assembly. Separated wheel halves, cleaned and inspected and bearings. Greased bearings using Mobile SHC100 grease. Inspected brakes, no problems noted. Reassembled wheel installing customer supplied new Michelin Air 24x7.25-12 Tire sn. 4143S00310 and new o-ring. Installed new valve stem in wheel assembly and serviced to 95 psi nitrogen. Deflated and removed nose wheel assembly. Separated wheel halves, cleaned and inspected and bearings. Greased bearings using Mobile SHC100 grease. Inspected brakes, no problems noted. Reassembled wheel installing customer supplied new Mitas 430x150 Model 7 Tire sn.41406038 and new o-ring. Installed new valve stem in wheel assembly and serviced to 44 psi nitrogen. Installed new 260XB wheel o-rings. Reinstalled wheels on aircraft, & safetied, set main tire pressure to 105PSI. Removed nose wheel, cleaned & inspected bearings, axle, all hardware, repacked bearings, reinstalled nosetire and wheel and safetied. Set nosetire pressure at 70PSI. O2 bleed down check good holding 80atm over night, fill O2 system up to 1115 atm. Pressure checked N2 system. Completed hydraulic checks using hydraulic mule. Disconnected hydraulic mule. Lowered aircraft from jacks. Inspect a/c system. Inspected air conditioning system. Measured all sensors. Found 200 ohm sensor bad aft of air cycle machine/reheat



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valve. Replaced sensor and inspected air supply valve and motor assembly. OPS checks good.  
 R&R Fire bottle. Removed fire bottle and routed to ABC fire for hydro and recharge. Picked up fire bottle from ABC fire and returned it to the shop. Charged bottle with Nitrogen IAW L-39 fire bottle pressure/temp charts. Reinstalled and safetied fire bottle. Sublet Service Completed: 11/13/2015 Description: Fire Bottle PO #: 0116861.  
 ELT ACK-450 sn. 461013, removed from aircraft and was inspected in the avionics shop in accordance with FAR 91.207(D) and was determined to be in airworthy condition. Replaced ELT battery 6 ea, D-Cell. Armed and reinstalled ELT in aircraft. ELT battery expires: March 2021. I certify that this aircraft has been inspected in accordance with the scope and detail of the FSDO-approved Aero Albatross Maintenance Inspection Program dated July 11, 2002, and found to be in a condition for safe operation. Type of inspection: 12 Month Condition Inspection. Pertinent details of work accomplished on file at Aviation Classics, Ltd., Reno, under Shop Order No. 19558

Signed: \_\_\_\_\_

