

CALIFORNIA SPORT AVIATION

PAGE 1 OF 5

INSPECTION REPORT

This Form Meets requirements of FAR Part 43

MAKE Seitzer, William I

MODEL Challenger I CWS

SERIAL NUMBER CH2-0179-CWS/838

REGISTRATION NUMBER N2621T

OWNER [REDACTED]

DATE MAY 18, 2016

TYPE INSPECTION Annual Condition

TACH TIME 163.31

ELT = Good working order
Replace batts by 2019 as per logbook

A. PROPELLER GROUP

- 1. Inspect spinner and back plate.
- 2. Inspect blades for nicks and cracks.
- 3. Inspect hub for cracks and corrosion.
- 4. Check for grease and oil leaks.
- 5. Check mounting bolts and safety.
- 6. Constant speed-check blades for tightness.
- 7. Constant speed-remove prop, remove sludge.
- 8. Lubricate as per manual.
- 9. Inspect complete assembly.
- 10. Replace spinner.

Slight nick on LEFT RIGHT INSP.
off part of one blade.

B. ENGINE GROUP

- 1. Remove engine cowls
- 2. Clean cowling, check for cracks, missing fasteners, ect.
- 3. Compression check: 780

L#1

#2

#3

#4

R#1

#2

#3

#4

#5

#6

- 4. Drain oil
- 5. Check oil screens and clean
- 6. Replace oil filter element
- 7. Check oil temp sender unit for leaks and security
- 8. Clean and check oil radiator fins
- 9. Remove and flush oil radiator
- 10. Check and clean fuel screens
- 11. Drain carburetor
- 12. Service fuel injector nozzles
- 13. Check fuel system for leaks
- 14. Check oil lines for leaks and security
- 15. Check fuel lines for leaks and security
- 16. Service air cleaner
- 17. Check induction air and heat ducts
- 18. Check condition of carb heat box
- 19. Check mag points for proper clearance
- 20. Check mag for oil seal leakage
- 21. Check breaker felt for lubrication

MAG SIDE = 76/80
PTO SIDE = 78/80
Excellent!

Not Applicable
OK
Needs Attention

Reinspect
after 100 hrs
Needs
K&N OIL

CALIFORNIA

SPORT

AVIATION

PAGE 2 OF 5

B. ENGINE GROUP (CONT.)

LEFT RIGHT INSP.

✓ 22. Check distributor block for cracks, burned areas, corrosion, height of contact springs			
✓ 23. Check ignition harness and insulators			
✓ 24. Check mag to engine timing:			

LEFT ENGINE

RIGHT ENGINE

✓ 25. Service or replace spark plugs .020 GAP on all. Cleaned + put Rotax paste - Heat Sink on.			
✓ 26. Check condition of generator or alternator			
✓ 27. Check condition of starter			
✓ 28. Check condition and tension of drive belts			
✓ 29. Check hydraulic pump and strainer			
✓ 30. Check vacuum pump and lines			
✓ 31. Inspect exhaust stacks, gaskets, etc.			
✓ 32. Inspect muffler and shrouds			
✓ 33. Check engine baffles			
✓ 34. Check breather tube for obstructions, security			
✓ 35. Check crankcase for leaks, cracks, etc.			
✓ 36. Check engine mounts for cracks, loose mounts			
✓ 37. Check engine mount bushings			
✓ 38. Check firewall seals			
✓ 39. Check throttle, carb heat, mixture, and prop governor controls for travel and operating condition.			
✓ 40. Check cowl flap condition and operation			
✓ 41. Inspect engine for general condition, loose parts, chafing, proper safeties, proper installation, ect.			
✓ 42. Fill engine with oil			
✓ 43. Clean engine			
✓ 44. Lubricate all controls			
✓ 45. Reinstall engine cowl			

C. CABIN GROUP

✓ 1. Inspect cabin doors for damage and operation			
✓ 2. Check windows for general condition			
✓ 3. Check upholstery for general condition			
✓ 4. Check seats, seat belts, and mountings			
✓ 5. Check trim operation			
✓ 6. Check flap operation			
✓ 7. Check fuel selector valve operation			
✓ 8. Check operation of fuel drain			
✓ 9. Check landing, navigation, cabin, and instrument lights.			
✓ 10. Check rudder pedals			
✓ 11. Check brake cylinders for operation and leaks			
✓ 12. Check brake fluid level			
✓ 13. Check control wheels, column, pulleys, cables			

CALIFORNIA

SPORT AVIATION

PAGE 3 OF 5

C: CABIN GROUP (CONT.)

LEFT RIGHT INSP.

✓ 14. Check instruments, lines, and attachments			
✓ 15. Service filters for gyro instruments			
✓ 16. Check condition in general under panel for loose wires, loose equipment, chafing, ect.			
✓ 17. Check condition of heater controls and ducts, air vents, and air conditioning ducts.			
✓ 18. Lubricate controls			
✓ 19. Check condition of instrument panel shock mounts			
✓ 20. Check altimeter calibration			

D. FUSELAGE AND EMPENNAGE GROUP

✓ 1. Remove inspection plates and panels			
✓ 2. Check general condition on aircraft skin			
✓ 3. Check baggage door(s) latches, and hinges			
✓ 4. Service battery			
✓ 5. Check bulkheads and stringers for damage			
✓ 6. Check wiring for damage and security			
✓ 7. Check security of all lines (fuel, hydraulic, etc.)			
✓ 8. Check cables, turnbuckles, guides, and pulleys for safeties, damage and operation.			
✓ 9. Check radio antennas for mounting and electrical connections.			
✓ 10. Check rotating beacon or strobes for security and operation			
✓ 11. Check empennage surfaces for damage			
✓ 12. Check rudder hinges, horn, and attachments			
✓ 13. Check vertical fin attachments			
✓ 14. Check elevator or stabilizer hinges, horn, and attachments			
✓ 15. Check horizontal stabilizer attachments			
✓ 16. Check trim mechanism			
✓ 17. Service hydraulic and brake systems			
✓ 18. Service cabin heater			
✓ 19. Lubricate as per manual			
✓ 20. Re-install inspection plates and panels			

E. WING GROUP

✓ 1. Remove inspection plates and fairings			
✓ 2. Check surfaces and tips for damage, loose rivets, etc.			
✓ 3. Check ailerons, hinges, cables, pulleys, and bell cranks for damage and operation			
✓ 4. Check flaps for damage and operation			
✓ 5. Check fuel tank for leaks and water			
✓ 6. Check fuel tank vents			
✓ 7. Fuel tanks marked for octane and capacity			
✓ 8. Check wing attachment bolts			
✓ 9. Check pitot tube for security			
✓ 10. Check stall warning indicator for operation			
✓ 11. Lubricate as per manual			
✓ 12. Re-install inspection plates and fairings			

CALIFORNIA

SPORT AVIATION

PAGE 4 OF 5

F. LANDING GEAR GROUP

LEFT RIGHT INSP.

1. Put airplane on jacks			
✓ 2. Check tires for wear and damage			
✓ 3. Remove wheels for cracks, corrosion, broken bolts			
✓ 4. Check tire pressure <u>20/20</u> + <u>Nose 20</u>			
✓ 5. Check brake linings and drum or disc			
✓ 6. Check brake lines for security and condition			
✓ 7. Check oleo struts for leaks and scoring			
✓ 8. Check gear forks, torque links, etc., for general condition.			
✓ 9. Check gear attachment bolts			
✓ 10. Check nose gear steering control and travel			
✓ 11. Check shimmy dampener			
✓ 12. Check gear doors and attachments			
✓ 13. Retract gear, check for proper clearances and operation			
✓ 14. Check warning horn and lights			
✓ 15. Check safety "squawk" switch			
✓ 16. Check oleo fluid level and air pressure			
✓ 17. Inspect all hydraulic lines and electrical wires for security, routing and general condition			
✓ 18. Lubricate as per manual			
✓ 19. Remove airplane from jacks			

G. OPERATIONAL INSPECTION

✓ 1. Check fuel pump			
✓ 2. Check fuel quantity and pressure- or flow-gage			
✓ 3. Check alternator or generator output			
✓ 4. Check vacuum gauge			
✓ 5. Check gyros for noise and roughness			
✓ 6. Check cabin heater operation			
✓ 7. Check electronic equipment operation			
✓ 8. Check air conditioner operation			
✓ 9. Check parking brake			
✓ 10. Check oil pressure and temperature			
✓ 11. Check manifold pressure			
✓ 12. Check alternate air			
✓ 13. Check propeller smoothness			
✓ 14. Check prop governor action			
✓ 15. Check mag RPM variation			
LEFT ENGINE			
RIGHT ENGINE			
✓ 16. Check static RPM			
✓ 17. Check idle RPM			
✓ 18. Check mag switch operation			
✓ 19. Check throttle and mixture operation			
✓ 20. Check idle mixture			

CALIFORNIA

SPORT
AVIATION

PAGE 5 OF 5

H. GENERAL

INSP.

☐ 1. Aircraft conforms to FAA specifications	
☐ 2. All AD notes complied with	
☐ 3. Manufacturers' service letters, bulletins, instructions complied with	
☒ 4. Aircraft papers in proper order	
☒ a. Registration	
☒ b. Airworthiness Certificate	
☐ c. Radio license	
☐ d. Flight Manual	
☒ e. Weight and Balance	
☐ f. Equipment list	

Signature of Inspector

Certificate Number

* Items not required by FAA as part of 100-hour inspection are marked with a star.