



US Department
of Transportation
Federal Aviation
Administration

MAJOR REPAIR AND ALTERATION
(Airframe, Powerplant, Propeller, or Appliance)

Form Approved
OMB No. 2120-0020
2/28/2011

Electronic Tracking Number

For FAA Use Only

INSTRUCTIONS: Print or type all entries. See Title 14 CFR §43.9, Part 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. §44701). Failure to report can result in a civil penalty for each such violation. (49 U.S.C. §46301(a))

1. Aircraft	Nationality and Registration Mark N3047J	Serial No. 18803596T	
	Make CESSNA	Model A188B	Series
2. Owner	Name (As shown on registration certificate) DARTER LLOYD R	Address (As shown on registration certificate)	
		Address	
		City MOUNTAIN GROVE	State MO
		Zip 65711-2563	Country USA

3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
☐	☒	AIRFRAME		(As described in Item 1 above)	
☐	☐	POWERPLANT			
☐	☐	PROPELLER			
☐	☐	APPLIANCE	Type Manufacturer		

6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency	
Name LLOYD R. DARTER JR.		☒ U. S. Certified Mechanic	Manufacturer
Address		☐ Foreign Certified Mechanic	C. Certificate No.
City SLATER	State IA	☐ Certified Repair Station	
Zip 50244	Country USA	☐ Certified Maintenance Organization	

D. I certify that the repair and/or alteration made to the unit(s) identified in item 5 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Extended range fuel per 14 CFR Part 43 App. B ☐	Signature/Date of Authorized Individual 
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7. Approval for Return to Service

Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ Approved ☐ Rejected

BY	FAA Fit. Standards Inspector	Manufacturer	Maintenance Organization	Persons Approved by Canadian Department of Transport
	FAA Designee	Repair Station	Inspection Authorization	Other (Specify)

Certificate or Designation No.	Signature/Date of Authorized Individual 	6-15-2010
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NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

N3047J

Nationality and Registration Mark

6-15-2010

Date

INSTALLED LYCOMING ENGINE IO-540S1A5 AND HARTZELL HC-C2YR-1BF/F8475T+2 PROPELLER .
INSTALLED HORIZON INSTRUMENTS P-1000 TACHOMETER, INSTALLED PLACARD ON PANEL STATING " DO
NOT EXCEED 24 INCHES MANIFOLD PRESSURE BETWEEN 2300 AND 2475 RPM." ALL DONE IN
ACCORDANCE WITH YATES AIRCRAFT LLC STC SA8343SW. INSTALLED ELECTRONICS INTERNATIONAL
OPT-1 OIL PRESSURE AND OIL TEMPERATURE GAUGE S/N 108488 IN ACCORDANCE WITH STC SA5925M
INSTRUCTIONS. INSTALLED ELECTRONICS INTERNATIONAL EAC-1 CHT/EGT GAUGE S/N 116354 IN
ACCORDANCE WITH STC SA2350NM INSTRUCTIONS. REVISED WEIGHT AND BALANCE.

SEE THE ATTACHED INSTRUCTIONS FOR CONTINUED AIRWORTHINESS.

END

☐ Additional Sheets Are Attached

Instructions for Continued Airworthiness Checklist

1. Introduction:
A/C Make: Cessna A188B Ser. No. 18803596T N3047J
Engine: Lycoming IO-540S1A5 Ser. No. L-20421-48A
Propeller: Hartzell HC-C2YR-1BF/F8475T+2 Ser. No. CH44661B
2. Description:
To improve the performance and safety of the aircraft the following Major Alteration was accomplished per STC 8343SW installation instructions. Removed the McCauley propeller, TCM IO-520-D engine and the firewall forward installation. Installed Yates Aircraft LLC. Lycoming engine installation kit per installation instructions and drawings to facilitate the installation of the Lycoming IO-540-S1A5 engine and Hartzell Propeller HC-C2YR-1BF/F8475T+2, spinner P/N C-1904-7, and Hartzell propeller governor F-4-11A.
3. Control, operation information:
Refer to the current revision of the Lycoming Overhaul Manual 60294-7, Operators Manual 60297-010, Hartzell Manuals No. 115N, and 130B, applicable AD's and mandatory bulletins. Changes in the RPM and manifold pressure operating limits are noted in placards and instrument range marking. The following restriction is to be placarded on the instrument panel in full view of the pilot per Hartzell's form 8110-3.
"Do not exceed 24 inches manifold pressure between 2300 and 2475 RPM"
4. Service information:
Maintenance instructions:
Refer to the current revision of the STC SA8343SW installation instructions, Lycoming Overhaul Manual 60294-7, Operators Manual 60297-010, Hartzell Manuals No. 115N, and 1130B, applicable AD's and mandatory bulletins.
5. Maintenance instructions:
Refer to the current revision of the STC SA8343SW installation instructions, Lycoming Overhaul Manual 60294-7, Operators Manual 60297-010, Hartzell Manuals No. 115N, and 1130B, applicable AD's and mandatory bulletins. Note: For agricultural operations, the recommended propeller overhaul time is 2,000 hrs or 36 months per Hartzell Service Letter HC-SL-61Y. Lycoming SL2 1009AT recommends for agricultural use the engine be overhauled every 1,500 hrs.
6. Trouble shooting information:
Refer to the current revision of the STC SA8343SW installation instructions, Lycoming Overhaul Manual 60294-7, Operators Manual 60297-010, Hartzell Manuals No. 115N, and 1130B, applicable AD's and mandatory bulletins.
7. Removal and replacement information:
Refer to the current revision of the STC SA8343SW installation instructions, Lycoming Overhaul Manual 60294-7, Operators Manual 60297-010, Hartzell Manuals No. 115N, and 1130B, applicable AD's and mandatory bulletins.
8. Diagrams:
Refer to the current revision of the STC SA8343SW installation instructions, Lycoming Overhaul Manual 60294-7, Operators Manual 60297-010, Hartzell Manuals No. 115N, and 1130B, applicable AD's and mandatory bulletins.
9. Special inspection requirements:
Refer to the current revision of the STC SA8343SW installation instructions, Lycoming Overhaul Manual 60294-7, Operators Manual 60297-010, Hartzell Manuals No. 115N, and 1130B, applicable AD's and mandatory bulletins.
10. Application of protective treatments:
Refer to the current revision of the STC SA8343SW installation instructions, Lycoming Overhaul Manual 60294-7, Operators Manual 60297-010, Hartzell Manuals No. 115N, and 1130B, applicable AD's and mandatory bulletins.
11. Data:
Refer to the current revision of the STC SA8343SW installation instructions, Lycoming Overhaul Manual 60294-7, Operators Manual 60297-010, Hartzell Manuals No. 115N, and 1130B, applicable AD's and mandatory bulletins.
12. Special Tools:
Refer to the current revision of the STC SA8343SW installation instructions, Lycoming Overhaul Manual 60294-7, Operators Manual 60297-010, Hartzell Manuals No. 115N, and 1130B, applicable AD's and mandatory bulletins.

13. For commuter category aircraft: Does not apply.

14. Recommended overhaul period:

Refer to the current revision of Lycoming Service Instruction 1009. The recommended Lycoming engine overhaul period for agricultural aircraft is 1,500 hrs. Hartzell Service Letter SL-61Y. The recommended overhaul time for this propeller on an agricultural aircraft is 2,000 hrs. or 3 years, whichever occurs first. The recommended overhaul time for the Hartzell governor is at engine TBO or 6 years, whichever occurs first.

15. Airworthiness limitation section: No additional airworthiness limitations.

16. Revision:

A letter will be submitted to the local FSDO with a copy of the revised FAA Form 337 and revised ICA. The FAA inspector accepts the change by signing block 3 and including the following statement: "The attached revised/new Instructions for Continued Airworthiness (date _____) for the above aircraft or component major alteration have been accepted by the FAA, suspending the Instructions for Continued Airworthiness (date _____)." Once the revision has been accepted, a maintenance record entry will be made, indentifying the revision, its location, and date of the Form 337.