



US Department of Transportation  
Federal Aviation Administration

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

OMB No. 2120-0020 Electronic Tracking Number

**RECEIVED**

For FAA Use Only

APR 17 2017

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 N84315	Serial No. 7AC-3012	
	Make <b>Aeronca</b>	Model <b>7AC</b>	Series <b>7</b>
2. Owner	Name (As shown on registration certificate) Timothy P. Sager	Address (As shown on registration certificate) Address 500 Glen Dr.	
		City Keller State TX	Zip 76248 Country USA

**3. For FAA Use Only**

The data identified herein complies with the applicable airworthiness requirements and is approved for the above described aircraft, subject to conformity inspection by a person authorized in §43.7.

NTX FSDO-SW19

District Office

Date

FAA Inspector

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME	Aeronca	(As described in Item 1 above)	7AC-3012
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT			
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER			
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type		
			Manufacturer		

**6. Conformity Statement**

A. Agency's Name and Address		B. Kind of Agency		C. Certificate No. <b>A&amp;P2836239</b>
Name Timothy P. Sager	Address 500 Glen Dr. City Keller State TX Zip 76248 Country USA	<input checked="" type="checkbox"/> U. S. Certificated Mechanic	Manufacturer	
		<input type="checkbox"/> Foreign Certificated Mechanic		
		<input type="checkbox"/> Certificated Repair Station		
		<input type="checkbox"/> Certificated 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 <input type="checkbox"/>	Signature/Date of Authorized Individual <i>Timothy P. Sager</i> 7-5-2017
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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	<input checked="" type="checkbox"/> Inspection Authorization	Other (Specify)

Certificate or Designation No. 2836239IA	Signature/Date of Authorized Individual <i>Timothy P. Sager</i> 7-5-2017
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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.)

N84315

7-5-2017

Nationality and Registration Mark

Date

Conversion of Aeronca 7AC to Hydraulic Disc Brakes

Removed Cleveland/Van Sickle 38500 wheels and A7200A L/R brake assemblies (pages 32 and 40 of Aeronca 7AC Service Manual). Installed Grove wheels 61-1001A, brake assemblies 29-1001B Rev 1R consisting of 20-076 Torque Plate Assembly and 30-1A Caliper Assembly. Grove axle nuts P/N 5520, axle spacers P/N 5735 and AN 340-40-8 cotter pins used to secure the wheels to the axle per Grove Drawing 28-4006 "Champ Wheel and Brake." AN4-5A bolts secured the brake assemblies to the brake torque plate (Aeronca Drawing 7-807). All Grove parts are TSO certified.

Removed mechanical linkage (see p. 20 of Aeronca Service Manual) and replace with Grove Part Nos. 670-5 Master Cylinder, 082-001 Clamp Assembly, and 082-012 Connecting Rod Assembly. All drawings are attached and incorporated by reference. Mounting used existing brake pedals and is shown on Grove drawing 25-110 "Installation - Master Cylinder."

This installation is identical in configuration and performance to the braking system approved for the 7ECA aircraft and listed in the type certificate data sheet. Mounting is by clamp instead of by welding and is of equivalent strength. This installation was previously approved by San Diego FSDO for Aeronca 7AC N4728E.

Hydraulic oil conforming to MIL PRF 46176B or grade 5606 is used in this installation. Flexible hose connections were installed made of new stock, tested to 4000 psi and certified to have bursting pressures 5000 psi and above under safety standards of 49 CFR 571.106. These hoses will conform to Specification SAE-J-1401.

This installation meets certification standards of CAR 3.363, CAR 04a.477, and 14 CFR 23.735. All work will be accomplished in accordance with standard practices of AC43.13-1B and AC43.13-2B.

An operational check was performed showing adequate braking action conforming with certification standards. A leak check was also performed.

Instructions for Continued Airworthiness are provided in the attachment "Instructions for Continued Airworthiness for Grove Main Wheel and Brake Assemblies with FAA-TSO Approval" Document 13046-11 Rev NC. See first additional sheet for list of attachments.

Additional Sheets Are Attached