DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

Revision 1
CUB CRAFTERS
CC19-180

September 27, 2016

TYPE CERTIFICATE DATA SHEET A00053SE

This data sheet, which is part of Type Certificate No. A00053SE, prescribes conditions and limitations under which the product for which the type certificate was issued meets the airworthiness requirements of the Federal Aviation Regulations.

Type Certificate Holder: Cub Crafters, Inc.
1918 South 16th Ave.
Yakima, WA 98903

I - Model CC19-180 (Normal Category) Approved June 2, 2016

Engine:	Engine Manufacturer:	Lycoming Engines, An Operating Division of AVCO Corporation
	Number of Engines:	One (1)
	Engine TC Number:	E-286
	Engine Model Designation:	O-360-C1G
Fuel:	100 (green) or 100LL (blue) grade aviation fuel.	
Engine Limits:	Maximum takeoff power:	180 horsepower at 2700 RPM
	Maximum continuous power:	180 horsepower at 2700 RPM
	See Engine Type Certificate Data Sheet E-286 for additional limitations.	
Propeller:	Propeller Manufacturer:	Hartzell Propeller, Inc.
	Number of Propellers:	One (1)
	Propeller TC Number:	P-920
	Propeller Model Designation:	HC-C2YR-1N/NG8301-5
	Diameter Limits:	78 inches. No diameter reduction allowed
	High Pitch angle:	29.0º-30.0º
	Low Pitch Angle:	9.7º-10.0º
	See Propeller Type Certificate Data Sheet P-920 for additional limitations.	
Airspeed Limits	V_O (2300 lbs)	86 KCAS
	V_O (1980 lbs)	79 KCAS
	V_{FE} (46º)	73 KCAS
	V_{NO}	117 KCAS
	V_{NE}	142 KCAS
Center of Gravity (C.G.) Range	Normal Category	
	Aft Limits:	79.5” aft of datum (1,600 lbs. to 2,300 lbs.) 78.5” aft of datum (1,300 lbs.)
	Forward Limits:	72.0” aft of datum ((1,300 lbs. to 1,680 lbs.) 79.1’ aft of datum (2,300 lbs.)
	Utility Category	
	Aft Limits:	78.0” aft of datum (1,300 lbs. to 1,980 lbs.)
	Forward Limits:	72.0” aft of datum ((1,300 lbs. to 1,680 lbs.) 75.4” aft of datum (1,980 lbs.)
	Straight line variation between points.	
Datum:	Datum is 60” forward of the wing leading edge.	

Levelling means:	See latest approved revision of the CC19-180 *"Pilot's Operating Handbook and FAA Approved Flight Manual."*	
Maximum Weights:	Normal Category	
	Maximum Ramp:	2,300 lbs.
	Maximum Takeoff:	2,300 lbs.
	Maximum Landing:	2,300 lbs.
	Utility Category	
	Maximum Ramp:	1,980 lbs.
	Maximum Takeoff:	1,980 lbs.
	Maximum Landing:	1,980 lbs.
Minimum Crew:	One (1) Pilot	
Number of Seats:	Two (2) seats total	Pilot located at 72.2" aft of datum Passenger located at 97.5" aft of datum
Maximum Compartment Weights:	As defined in the latest approved revision of the CC19-180 *"Pilot's Operating Handbook and FAA Approved Flight Manual."*	
Fuel Capacity:	One 24.5 gallon tank in each wing at 84.5" aft of datum; 23 gallons usable in each wing, 1.5 gallons unusable in each wing (49 gallons total; 46 gallons usable; 3 gallons unusable). *Note: add weight of unusable fuel to the certificated weight.*	
Oil Capacity:	8 quart total *See Lycoming Service Instruction 1014 for approved oil.*	
Maximum Operating Altitude	14,000 feet	
Control Surface Movements:	Wing flaps:	0º, 16º, 33º, 46º ± 1.0º
	Ailerons:	Up: 20º ± 1.5º Down 14º ± 1.5º
	Elevator:	Up 25º ± 1.5º Down 15º ± 1.5º
	Stabilizer	Up 4.9º +0.1º/-0.0º Down 2.5º +0.0º/-0.1º
	Rudder	Left 22.5º +0/-0.75º Right 25º +0/-0.75º
	See the latest FAA approved revision of the CC19-180 *"Airplane Maintenance Manual,* or other FAA approved data, for control system rigging instructions and setting flaps up (0º) configuration.	
Manufacturer's Serial Numbers:	The information contained herein is applicable to Serial Numbers CC19-0002 and greater.	
Certification Basis:	Part 23 of the Federal Aviation Regulations (FAR) effective December 18, 1964, as amended by 23-1 through 23-62. FAR 36 as amended on the date of certification.	
Equivalent Level of Safety Findings	Emergency exit requirements of FAR 23.807 in accordance with ELOS No. TC10279SE-A-C-1. Correction to errors in Amendment 23-62 in accordance with ELOS No. TC10279SE-A-G-9.	
Exemption:	Exemption from the requirements of Title 14, Code of Federal Regulations (14 CFR) §23.562, Regulatory Docket No. FAA-2009-1161.	
TC Number:	A00053SE	
	TC Issuance Date:	June 2, 2016
	TC Application Date:	February 11, 2013
Operational Limitations:	Day-Night, Visual Flight Rules (VFR)	
Airframe Life Limits:	See the latest FAA approved revision of the CC19-180 *"Airplane Maintenance Manual."*	
Production Basis:	Production Certificate 722NM.	

Equipment:	The basic required equipment as prescribed in the applicable airworthiness regulations (see Certification Basis) must be installed in the aircraft for airworthiness certification.	
	Additional Equipment Necessary for Type Certification:	The latest FAA Approved/ Revision of *"CC19-180 Pilots Operating Handbook and FAA Approved Flight Manual."*

NOTE 1:	A current weight and balance report with a list of equipment included in the certificated empty weight must be provided for each aircraft at the time of original airworthiness certification.
NOTE 2:	The placards specified in the latest FAA Approved/Accepted Revision of "*CC19-180 Pilots Operating Handbook and FAA Approved Flight Manual,"* are required.
NOTE 3	The airplane must be subsequently maintained in accordance with the Instructions for Continued Airworthiness, and Airworthiness Limitations section, as contained in the latest FAA approved data.

END