DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

E-236 Revision 11 CONTINENTAL C-115-1,-2 C-125-1, -2 November 1, 2011

TYPE CERTIFICATE DATA SHEET NO. E-236

Engines of models described herein conforming with this data sheet (which is part of Type Certificate No. E-236) and other approved data on file with the Federal Aviation Administration, meet the minimum standards for use in certificated aircraft in accordance with pertinent aircraft data sheets and applicable portions of the Federal Aviation Regulations provided they are installed, operated and maintained as prescribed by the approved manufacturer's manuals and other approved instructions.

Type Certificate Holder Continental Motors

P. O. Box 90

Mobile, Alabama 36601

Type Certificate Holder Record Teledyne Continental Motors

Ownership & name change as of April 19, 2011 (Continental Motors, Inc.)

Model	<u>C-115-1</u>	<u>C-115-2</u>	<u>C-125-1</u>	<u>C-125-2</u>
Type	6HOA			
Rating, ICAO or ARDC standard atmosphere				
Max. continuous hp., rp.m. full throttle,	115-2350		125-2550	
at sea level pressure altitude				
Takeoff hp. (5 min.), r.p.m.	125-2550		125-2550	
full throttle, at sea level pressure altitude				
Fuel (min. grade aviation gasoline)	73			
Lubricating oil:				
Oil inlet temperature	Oil Grade			
Below 120°F	SAE 20			
Above 120°F	SAE 20			
Bore and stroke, in.	4.062 x 3.625			
Displacement, cu. in.	282			
Compression ratio	6.3:1			
Weight (dry), lb.	See NOTE 3			
C.G. location (with starter and generator)				
Fwd. of rear mount bushing centerline, in.	6.09			
Below propeller shaft, in.	1.50			
Propeller shaft, SAE No.	10	3 Flanged	10	3 Flanged
Carburation	Marvel MA-3SPA			
	P/N 10-2848			
Ignition, dual magnetos	CMI/TCM/Bendix			
	-Scintilla SF6LN-			
	8, -12 or S6LN-21			
	or CMI/TCM			
	S6LSC-21 or			
	Eisemann LA-6			
Timing, *BTC	28		Right 28,	
			Left 30	
Spark plugs	See NOTE 4			
Oil sump capacity, qt.	8			
NOTES	1, 2, 3, 4, 5			

[&]quot;-" indicates "same as" preceding model.

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Certification basis CAR 13 effective August 1, 1941

Type Certificate No. 236 issued for C-115-1 and C-125-1 November 7, 1945;

C-115-2 and C-125-2 added May 16, 1946.

Application for Type Certificate dated June 8, 1945.

Production basis Production Certificates Nos. 7 and 508.

NOTE 1. Maximum permissible temperatures:

Cylinder head bayonet thermocouple 550°F
Cylinder barrel 300°F
Oil inlet 220°F

NOTE 2. Pressure limits for normal operation:

Oil - 30 - 40 p.s.i.g.

NOTE 3. The following accessory drive or mounting provisions are available:

						Maxımum
	Type of	*Direction	Speed Ratio	Max.Torque (inlb.)		Overhang
Accessory	<u>Drive</u>	of Rotation	to Crankshaft	Continuous	Static	Moment (inlb.)
Generator	Automotive	CC	2.035:1	50	600	100
**Starter	Automotive	C	35.77:1			
Fuel pump	Automotive		0.500:1			
	diaphragm					

^{*}C - Clockwise viewing drive pad; CC - Counterclockwise.

The following typical engine accessories are eligible at the indicated weight increases:

Starter Delco-Remy (Continental P/N 50309)	Weight (lb.) 15
Generator Delco-Remy EX-33371 (Continental P/N 40435) Delco-Remy No. 1101879 (Continental P/N X530190 (C-125-1, -2 only)	10 14
Fuel Pump AC diaphragm type No. 1539051 or Cont. No. 40585	2
<u>Miscellaneous</u> Air intake and filter assembly No. A-40692	3

NOTE 4. Dry weights are as follows:

 $257\ lb.$ with SF6LN-8 or -12 magnetos $252\ lb.$ with S6LN-21 or LA-6 magnetos

NOTE 5. The following spark plugs and/or those listed in CMI Service Information Letter SIL03-2 are approved on

this engine:

AC SR83IR, HSR83IR, SR83P, HSR3P, A88, S88,S88D, HS88, SR88, HSR88,

Auto Lite SH2K, SH2M, H15, SH15, SH15R, ISA1, SH20, SH20A, SH200A,

BG RB485S, 706, 706S, 706SR, 919SR5, RB955S

Champion C26B, C27, C27S, C62S, REM40E, RHM40E, D41N, KD41N, M41N, EM41N, M42E,

REM38P, RHM38P

Firestone MA3S

Red Seal SA130, SE190, SE230, SJ190, SJ230

^{**}Delco-Remy gear reduction drive and starter eligible on all models.