

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

E11EU
CONTINENTAL
RR O-240-A
Rev. 3
November 4, 2011

TYPE CERTIFICATE DATA SHEET NO. E11EU

Engines of models described herein conforming with this data sheet (which is part of engine type certificate No. E11EU) 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 described 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.)
Type Certificate Holder Record:	Rolls-Royce transferred ownership to Teledyne Continental Motors on December 12, 1983.
Model	RR O-240-A
Type	4HOA
Rating, ICAO or ARDC standard atmosphere	
Max. continuous hp., rpm, full throttle	
at sea level pressure altitude	130-2800
Takeoff hp., rpm, full throttle	
at sea level pressure altitude	130-2800
Fuel (min. grade aviation gasoline)	100/130
Lubricating oil	Lubricating oils qualified under SAE-J1899 or J1966 are considered qualified under CMI Spec MHS-24 MIL-L-22851 D. Eng. RD 2450
Ambient air temperature	Oil grade
Below 5°C	SAE 30
Above 5°C	SAE 50
Bore and stroke, in.	4.438 X 3.875
Displacement, cu. in.	240
Compression ratio	8.5:1
Weight (dry), lb.	246
C.G. location (with accessories)	
Fwd of mounting lug rear face, in.	5.043
Below crankshaft, in.	1.630
Propeller shaft	ARP 502 Type 1 flange 4-7/8 in. o.d. by .31 in. thick with six-1/2 in. bolt holes in 4 in. dia circle
Carburetion	Marvel-Schebler MA-3SPA IO 5067
Ignition, dual, magnetos	CMI/TCM/Bendix-Scintilla S4LN-21 or Slick 4,001

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Timing, °BTDC	20
Spark plugs	Champion REM 38-E Lodge RSE/23/2R Lodge RS/26/IR
Oil sump capacity, U.S. qt.	Max. capacity 6 usable at 10° nose-up attitude 4 usable at 10° nose-down attitude 4
Certification basis	FAR 21.29 and British Civil Airworthiness Requirements, Section C, Issue 6 of of 15 June 1966, with other requirements as necessary to be equivalent to FAR 33 as amended by 33-1, 33-2, and 33-3. Date of application for Type Certificate: 18 February 1971. Type Certificate No. E11EU issued 7 July 1971.

Notes: 1, 2, 3,

NOTE 1. Maximum permissible cylinder head, barrel and oil inlet temperatures, 460°F, 290°F, and 240°F respectively.

NOTE 2. Pressure limits for normal operation:
Fuel at carburetor inlet 6 psig max. 0.3 psig min.

Oil 30 to 60 psig running 10 psig at idle min.

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

Accessory	Type of Drive	Direction of Rotation	Speed to Crankshaft	Max. Torque (in.-lb.)		Maximum Overhang (in.lb.)
				Cont.	Static	
Generator	Automotive	CCW	2.035:1	60	100	100
Starter	Automatic engagement	CW	35.77:1	-	-	-
Vacuum pump	AND 20,000	CCW	1:1	40	800	25
Fuel pump	Automotive diaphragm	-	0.5:1	-	-	-

"CW" - Clockwise and "CCW" - Counter Clockwise (viewing drive pad)

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