



AGÊNCIA NACIONAL DE AVIAÇÃO CIVIL - BRASIL

TYPE CERTIFICATE DATA SHEET Nº EM-2009T02

Type Certificate Holder:

TELEDYNE CONTINENTAL MOTORS, INC.
2039 Broad Street
Mobile, Alabama 36615
USA

EM-2009T02-00

Sheet 01

TELEDYNE
CONTINENTAL

IO-240-B,

06 March 2009

Engines of models described herein conforming with this data sheet, which is part of Type Certificate No. 2009T02, meet the minimum standards for use in certificated aircraft in accordance with pertinent aircraft data sheets and applicable portions of the Brazilian Aeronautical Regulations provided they are installed, operated, and maintained as prescribed by the approved manufacturer's manuals and other instructions.

MODEL	IO-240-B
TYPE	4HOA. Four-cylinder horizontally opposed piston engine, naturally aspirated, air-cooled, fuel injected, direct drive.
RATINGS	IO-240-B
	Max. continuous, hp (rpm) full throttle at Sea level pressure altitude: 125 (2 800)
	Takeoff (5 min), hp (rpm) full throttle at Sea level pressure altitude: 125 (2 800)

		IO-240-B
FUEL TYPE	(Min. grade aviation gasoline)	100 or 100LL
FUEL INJECTION	TCM Injector	639231A34
OIL, LUBRICATION	Oils meeting TCM Specification MHS-24 are eligible for use in this engine.	
IGNITION		See Note 4
COMPRESSION RATIO		8.5:1
WEIGHT (BASIC ENGINE, DRY)	kg (lb)	115.7 (255)
BORE AND STROKE	mm (in)	112.7 x 98.4 (4.438 x 3.875)
DISPLACEMENT	liters (Cu in)	3.93 (240)
PROPELLER SHAFT- SPECIFICATIONS	Type 1 flange: 4.875" O.D. with six ½" bolt holes in 4" diameter circle.	
TIMING	°BTC	26
SPARKS PLUGS	Champion REM38E, REM38P, RHM38E and RHM38P are approved on this engine.	
OIL SUMP CAPACITY	liters (Qts)	5.68 (6.0); 2.84 (3.0) usable at 10° nose up; 2.84 (3.0) usable at 10° nose down

IMPORT REQUIREMENTS Each engine imported separately and/or spare parts must be accompanied by an Airworthiness Certificate for Export and/or an Airworthiness Approval Tag, respectively, issued by FAA, attesting that the particular engine and/or parts were submitted to the governmental quality control before delivery and are in conformity with the ANAC approved type design.

CERTIFICATION BASIS Brazilian Type Certificate No. 2009T02 based on the RBHA 33, which endorses the 14 CFR Part 33, amendments 1 through 14, effective 10 August 1990 and 14 CFR 33.28, amendment 15.

<u>Model</u>	<u>Application</u>	<u>Issued TC</u>
IO-240-B	30 Jun 2008	06 Mar 2009

PRODUCTION BASIS FAA Production Certificate No. 508.

NOTES:

NOTE 1 Maximum Permissible Temperatures:

Cylinder Head	238°C (460°F)
Oil Inlet	116°C (240°F)

NOTE 2 Fuel Pressure Limits:

Inlet to injection pump,	Min - Minus 2 psig
	Max - Plus 6 psig
Outlet to Vapor Return Line	Max - 3.5 psig

NOTE 3 Oil Pressure Limits, at Outlet

Normal	30-60 psig
Idle	10 psig
Max (Cold oil)	100 psig

NOTE 4 This engine could be equipped with the following ignition systems: two TCM S4LSC-21 or two Slick 4301.

NOTE 5 This engine is eligible for pusher and tractor operation.

NOTE 6 Engine model numbers may include a suffix to define minor specification changes. Example: IO-240-B (1B).

NOTE 7 Maximum exhaust back pressure shall not exceed 5.08 cm Hg (2 in Hg) above ambient at the turbocharger exhaust outlet flange.

NOTE 8 Installation of Health Status Annunciator (HAS) display is subject to the requirements established by the certification basis of the aircraft.

NOTE 9 The following accessory drive or mounting provisions are available for IO-240-B series engines.

Accessory	Direction of Rotation (*)	Speed Ratio to Crankshaft	Max. Torque (in-lb)		Max. Overhang Moment (in-lb)
			Cont	Static	
Starter	CCW	24.727:1	50	#	#
Alternator	CCW	2.035:1	30	100	100
Tachometer (optional)	CW	0.5:1	7	50	25
Magneto (**)	CW	1.0:1	#	#	#
Fuel Pump	CCW	1:1	40	800	#
Vacuum Pump (***)	CW	1:1	25	800	25

(*) "CW" = Clockwise and "CCW" = Counterclockwise (viewing drive pad).

(**) Magneto drives not used on IOF-240-B FADEC engine.

(***) This drive is an AND 20000 pad modified for speed only.

NOTE 10 Applicable FAA approved and/or accepted manuals:

- Operation & Installation: p/n X30620
- Maintenance: p/n X30621A
- Overhaul: p/n X30622A



ADEMIR ANTÔNIO DA SILVA
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