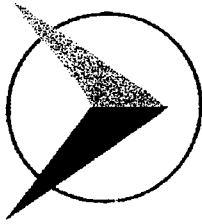


COMMONWEALTH OF AUSTRALIA



CIVIL AVIATION
SAFETY AUTHORITY
AUSTRALIA

CERTIFICATE OF TYPE APPROVAL

Number: 160-2

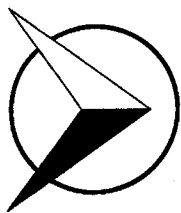
Manufacturer/Holder: Avtech Pty Limited

Address: PO Box 5186
Bundaberg West 4670
Queensland

Pursuant to Regulation 22 of the Civil Aviation Regulations this certifies that approval is granted for the model Jabiru 2200J engine.

This certificate is valid until suspended or cancelled by the Civil Aviation Safety Authority. The basis of certification is as prescribed in Certificate of Type Approval Data Sheet Number 160-2 issued by this Authority.

N J Probert
Delegate of the Authority
Date of Issue: 3 April 1998



CIVIL AVIATION
SAFETY AUTHORITY
AUSTRALIA

No.: 160-2
Revision: 1
Jabiru 2200J

3 June 1998

CERTIFICATE OF TYPE APPROVAL DATA SHEET NO. 160-2

Engines of the models described here that conform with this data sheet (which is part of Certificate of Type Approval Number 160-2) and other approved data on file with CASA, meet the minimum standards for use in certificated aircraft, in accordance with pertinent aircraft data sheets and applicable portions of the CARs and CAOs, provided they are installed, operated, and maintained; as prescribed by the CASA approved manufacturer's manuals and other CASA approved instructions.

Type Certificate Holder	Avtech Pty. Ltd. PO Box 5186 Bundaberg West QUEENSLAND 4670
Model	Jabiru 2200J
Type	4HOA Direct Drive
Rating	
Max continuous power and rpm at sea level pressure altitude	55.5 hp, 3100 rpm
Takeoff (5 min) power and rpm at full throttle, sea level pressure altitude	55.5 hp, 3100 rpm
Fuel	
Minimum grade aviation gasoline Consumption	100LL & 100/130 15 L/hr at Maximum Continuous Power

Oil

Type	Aero Oil W Multigrade 15W-50, or equivalent lubricant complying with MIL-L-22851C, or Lycoming Specification 301F, or Teledyne - Continental Specification MHF-24B
Useable	1.1 litres
Sump Capacity	2.3 litres
Consumption	0.1 L/hr at Maximum Continuous Power

Ignition

Dual	Jabiru Dual Magneto, high voltage transistorised, contactless PN PII0522N
Sparkplugs	NGK D9EA
Timing	25 degrees BTC * NOTE 1

Bore and Stroke 97.5 mm x 74 mm

Displacement 2209 cubic cm

Compression Ratio 9.0 : 1

Principal Dimensions

Length	536 mm
Width	582 mm
Height	445 mm

Weight (dry) 55 kg * NOTE 2

Temperature

Maximum permissible temperatures
Oil Inlet
Minimum for Operation 15 degrees C
Maximum Continuous 118 degrees C
Cylinder Head
Maximum Continuous 200 degrees C
Ignition Coils
Maximum 100 degrees C
Minimum -5 degrees C

Pressure

Oil Pressure Limits			
Normal Operations	Minimum	100 kPa	
	Maximum	525 kPa	
Idle	Minimum	40 kPa	
	Starting & Warm Up	Maximum	525 kPa
Fuel Pressure Limits			
To Carburettor (above ambient)	Minimum	0.05 Bar	
	Maximum	1.5 Bar	

Centre of Gravity Location	A: 260 mm from front face of propeller flange B: 15mm below centreline of crankshaft * NOTE 3
Propeller Rotation	Clockwise (viewed from rear)
Carburettor	1 x Bing constant pressure carburettor type 64/32/396 Main Jet 2.0 mm
Fuel Pump	Mechanical, Jabiru PN: PG10332N
Alternator	Integrated Jabiru, permanent magnet single phase alternator, PN 4532064/4535064 with regulator rectifier PN PII0652N
Starter	Jabiru 12V/1.0 kW, engagement via reduction gear and freewheel PN 4372053
Serial Number Range	22J001 and upwards
Notes	1, 2, 3
Certification Basis	JAR-22H and CAO101.55 paragraph 6.1(a) issue 1 at amendment 99. Certificate of Type Approval Number 160-2 for Jabiru 2200J issued 3 April 1998.
Production Basis	Certificate of Approval Number 3501

Notes:

- NOTE 1. Engine operating altitude limit of 10,000 feet above sea level as defined by ignition circuit.
- NOTE 2. Net dry weight includes exhaust, starter, flywheel and alternator.
- NOTE 3. Centre of Gravity:
A: Relative to specific longitudinal reference.
B: Relative to engine centre line.

- END -