

CIVIL AVIATION
SAFETY AUTHORITY
AUSTRALIA

Type Certificate

Number: VR506

Type Certificate holder: Osborne Aviation Services Pty Ltd
PO Box 328
North Hobart 7002
Tasmania

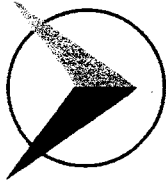
Pursuant to Regulation 21.25 of the Civil Aviation Regulations 1998 approval is hereby granted for the OH-58A helicopter in the restricted category.

This certificate is valid until suspended or cancelled by the Civil Aviation Safety Authority. The basis of certification is as prescribed in Type Certificate Data Sheet Number VR506 issued by this Authority.

Date of application: 8 March 2000

Date of issue: 24 May 2001

N.J. Probert
Delegate of the Authority



CIVIL AVIATION
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No: VR506

Revision: 1

Aircraft: OH-58A

Date: 23 July 2003

TYPE CERTIFICATE DATA SHEET No. VR506

This data sheet, which is part of Type Certificate No. VR506, prescribes conditions and limitations under which the aircraft for which the Type Certificate was issued meets the airworthiness requirements of the Civil Aviation Safety Authority.

TYPE CERTIFICATE HOLDER:

Osborne Aviation Services Pty. Ltd.
PO Box 328
North Hobart, Tasmania, 7002
AUSTRALIA

Model OH-58A (Restricted Category Rotorcraft) approved 24 May 2001

Engine: Allison 250-C10D (T63-A-700/B)

Fuel: Aviation Turbine Fuel per ASTM D1655, Jet A-1.
See AF55-1520-228-10 para 5-13 for temperature limits and other approved fuels.

Engine Limits:

	Torque	Output RPM (N2)	Turbine Outlet Temp - TOT (°C)	Gas Producer RPM
Take-off (5 min.)	92 psig	103%	749	104%
Max. Continuous	79 psig	103%	693	104%

See AF55-1520-228-10 for transient limits.

NOTE: Powerplant cooling has been demonstrated to be adequate for the following ambient temperature schedule: 51.7°C at sea level decreasing by 2°C per 1000 feet to the maximum operating altitude of 10,000 feet.

Rotor Limits:

Power Off	Power On
Maximum 390 RPM	Maximum 354 RPM
Minimum 330 RPM	Minimum 347 RPM

Avoid prolonged operation between 172 and 206 RPM.
See AF55-1520-228-10 for transient limits.

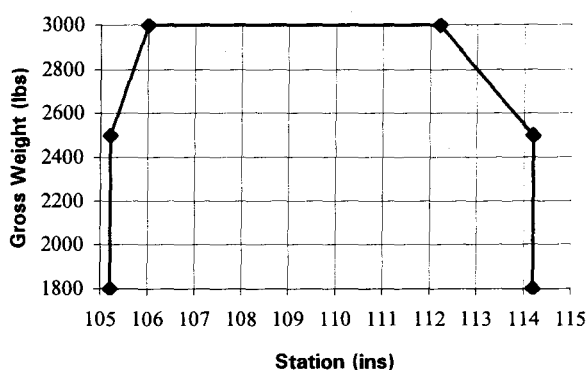
Longitudinal C.G. Limits:

(+106.0 to +112.2) at 3000 lbs.

(+105.2 to +114.2) at 2500 lbs.

(+105.2 to +114.2) at 1800 lbs.

Straight line variation between points given. See chart.



Maximum Weight: 3000 lbs.

Airspeed Limits: Never exceed 120 knots CAS. Refer to AF55-1520-228-10 for additional information (AIRSPEED LIMITS).
Decrease Vne 3 knots per 1000 ft. above 3000 ft.
100 knots recommended maximum for autorotation.

Minimum Crew: 1 at (+65.0)

Number of seats: 1 at (+65.0), and 2 at (+104.0).

Maximum Cargo: maximum cargo weight 950 lbs (430 kg),
not to exceed 100 lbs/sq. ft. between (+77) and (+114).

Fuel Capacity: 71.5 US gal (271 litres) at (+116.0)
70.3 US gal (266 litres) useable
See AF55-1520-228-10 for fuel operational limits.

Oil Capacity: 11.2 US pints (5.3 litres) at (+179.0)

Control Movements: Refer to chapter 11 of the Aviation Unit and Intermediate Maintenance Manual TM55-1520-228-23-2.

Serial Nos. Eligible: 44028, 44031, 44045, 44054, 44064 and 44070, subject to compliance with OH-58A Conformity Inspection Program specified by Edge Aviation EA OH58A Con/Rev 0.

Datum	Station 0 datum is 25.4 mm (1.0 inch) forward of most forward point of fuselage cabin nose section or 1401 mm (55.16 inches) forward of jack point centreline.
Leveling Means	Plumb line from ceiling left rear cabin to index plate on floor.
Certification Basis	<p>Sub-regulation 21.25(1)(b)(ii) of the Civil Aviation Regulations 1998 as in force on 8 March 2000.</p> <p>A special certificate of airworthiness in the restricted category may be issued for the following special purposes as specified in regulation 21.25 of the Civil Aviation Regulations 1998:</p> <ul style="list-style-type: none"> a) agricultural operations [CAR 21.25 (2)(a)] b) forest and wildlife conservation [CAR 21.25 (2)(b)] c) firefighting [CAR 21.25 (2)(c)] d) aerial surveying [CAR 21.25(d)] e) patrolling [CAR 21.25(e)] f) search and rescue [CAR 21.25 (2)(k)] g) flood relief [CAR 21.25 (2)(k)] h) external load operations [CAR 21.25 (2)(k)]
Publications	<p>Flight Manual: Osborne Aviation Services Pty Ltd flight manual EA OH 58A AFM/Rev 1 or later CASA approved version; and Publication No. TM55-1520-228-10 Operator's Manual Army Model OH-58A Helicopter dated 7 April 1978 and incorporating changes 1 through 25. This Flight Manual is applicable to all eligible serial nos. called up by this data sheet.</p> <p>Continued airworthiness: Osborne Aviation Services Pty Ltd Aircraft Inspection Program for Bell Helicopter OH-58A Serial No 44054. Australian Airworthiness Directives in the series AD/BELL 206/ are applicable to the helicopter on this type certificate – see Note 1 below.</p>

- NOTE 1: The helicopters on this type certificate must comply with AD/BELL 206/ Airworthiness Directives unless an application has been made to CASA under regulation 39.4 or 39.5 of the Civil Aviation Regulations 1998 and the helicopters have been excluded from operation of the Airworthiness Directive.
- NOTE 2: These restricted category helicopters must not be operated in a country other than Australia, or in the territory of a country other than Australia, without the written permission of the national aviation authority of that country.
- NOTE 3: Engine changes are allowed provided the replacement engine is of the same make and model as identified in this type certificate data sheet. The replacement engine must have proper military records and have accomplished the airworthiness inspection applied by the FAA.

END