



Australian Government

Civil Aviation Safety Authority

Type Certificate

Number: VR507


Type Certificate holder: AMT Helicopters Pty Ltd
PO Box 857
Caboolture, QLD, 4510
Australia

Pursuant to Regulation 21.25 of the Civil Aviation Regulations 1998 approval is hereby granted for the AMT 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 VR507 issued by this Authority.

Date of application: 2 August 2004

Date of issue: 11 November 2004


Eugene Paul Holzapfel
Delegate of the Authority



TYPE CERTIFICATE DATA SHEET

This data sheet, which is part of Type Certificate No. VR507, prescribes conditions and limitations under which the aircraft for which the Type Certificate was issued meets the airworthiness requirements of the Commonwealth of Australia, Civil Aviation Safety Regulations.

Certificate Holder AMT Helicopters Pty Ltd
PO Box 857
Caboolture QLD 4510
AUSTRALIA

Model – AMT OH-58A (Restricted Category Rotorcraft) approved 11 November 2004

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

Fuel: Aviation Turbine Fuel per ASTM D1655, Jet A-1.
(See Canadian Defence Force Document No. C-12-136-000/MB-000 for additional information.)

Engine Limits:

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

See Canadian Defence Force Document No. C-12-136-000/MB-000 for transient limits.

Rotor Limits:

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

Avoid prolonged operation between 172 and 206 RPM.

See Canadian Defence Force Document No. C-12-136-000/MB-000 for additional operational information.

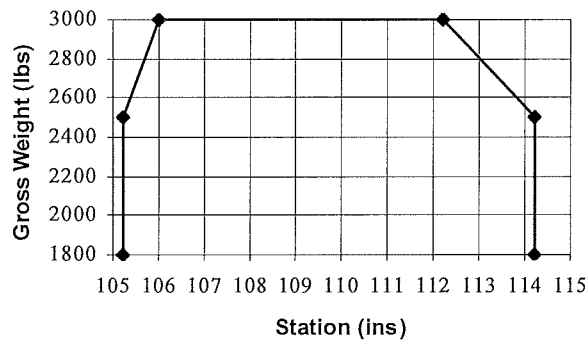
Longitudinal C.G. Limits:

(+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 (1360 kg).

Airspeed Limits: Never exceed 120 knots CAS,
Decrease Vne 3 knots per 1000 ft. above 3000 ft.
Maximum recommended speed for autorotation - 100 kts
Refer to Canadian Defence Force Document No. C-12-136-000/MB-000 for additional information on airspeeds.

Minimum Crew: 1 at (+65.0).

Other Occupants: 1 at (+65.0), and 2 at (+104.0).

Maximum Cargo: Maximum Cargo Weight 950 lbs (430 kg),
Do 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 Canadian Defence Force Document No. C-12-136-000/MB-000 for fuel operational limits. This document only provides weight and balance information to a nominal 58 Imp gal (69.5 US gal/264 ltrs).

Oil Capacity: 9.0 Imp pints (5.11 litres) at (+179.9)

Control Movements: In accordance with Canadian Defence Force Document No. C-12-136-000/MF-000.

Serial Nos Eligible: 44003, 44018, 44019, 44023, 44026, 44027, 44034, 44037, 44049, 44051, 44053, 44060, 44073, subject to compliance with OH-58A Conformity Inspection Program, specified by Edge Aviation Document No EA/AMT OH58A Con/Latest Revision. (See Note 4)

Aircraft with the referenced serial numbers are designated as CH-136 Kiowa helicopters. The CH-136 is a version of the OH58A built for the Canadian Defence Force.

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.

Levelling Means: Plumb line from ceiling in left rear cabin to index plate on floor.

Certification Basis: Sub-regulation 21.25 (1)(b)(ii) of the Civil Aviation Safety Regulations 1998 as in force on 14 October 2004.

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 Safety Regulations 1998:

- a) agricultural operations [CASR 21.25 (2)(a)]
- b) forest and wildlife conservation [CASR 21.25 (2)(b)]
- c) fire-fighting [CASR 21.25 (2)(c)]
- d) aerial surveying [CASR 21.25 (2)(d)]
- e) patrolling [CASR 21.25 (2)(e)]
- f) search and rescue [CASR 21.25 (2)(k)]
- g) flood relief [CASR 21.25 (2)(k)]
- h) external load operations [CASR 21.25 (2)(k)]

Publications: *Flight Manual:*

AMT Helicopters Pty Ltd Flight Manual EA AMT OH58A AFM/Rev 1 or later CASA approved version; and Canadian Defence Force Document No. C-12-136-000/MB-000 – Aircraft Operating Instructions – CH-136 KIOWA.

Instructions for Continuing Airworthiness:

AMT Helicopter Pty Ltd Document No AMT072, Original Issue dated 24 June 2008 or later CASA approved revision. (See Note 5)

- Note 1:** 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 Airworthiness Authority of that country.
- Note 2:** Engine changes are allowed provided the replacement engine is of the same type and model as identified in this type certificate data sheet. The replacement engine must have proper military records and have accomplished the airworthiness inspection as applied by the FAA.
- Note 3:** The airworthiness limitations specified in Canadian Air Force Document No. C-12-136-000/NE-000, apply to either new components or to components that have only been installed on CH-136 aircraft operated by the Canadian Defence Force and maintained in accordance with the Canadian Defence Force maintenance program.
- Where the records of used components do not support this requirement, the respective airworthiness limitations specified in Attachments 4 and 5 of FAA Memorandum titled "*FAA Policy Concerning the Type Certification of Military Surplus OH-58 Helicopters in the Restricted Category*" apply.
- Note 4:** The supplementary data plate required by the Conformity Inspection Program shall contain the following information:
- (a) the aircraft model – AMT OH-58A;
 - (b) the Type Certificate No. VR507
 - (c) the aircraft serial number; and,
 - (d) the date the conformity inspection was completed.
- Note 5:** AMT OH-58A helicopters covered by this TCDS shall be maintained in accordance with AMT Helicopters Pty Ltd Instructions for Continued Airworthiness, Document No AMT072
- Note 6:** The changes introduced by Revision 1 of TCDS VR507 are applicable to helicopters compliant with the original issue of this TCDS.
- Note 7:** Revision 2 introduces additional eligible serial numbers to this TCDS, references AMT Instructions for Continued Airworthiness and deletes redundant paragraphs.
- Note 8:** Revision 3 removes serial number 44062 and corrects serial number 44028 to 44026.

END