Ministry of Transport and Communication of Ukraine
State Aviation Administration

SAA
TYPE CERTIFICATE DATA SHEET № TB 0020

EC 130

Type Certificate Holder: EUROCOPTER
Aéroport International Marseille-Provence, 13725
Marignane Cedex, France

Models: EC 130 B4

Issue 1, 15 June 2010

This Data Sheet which is integral part of Type Certificate № TB 0020 prescribes the conditions and limitations under which the product(s) for which the Type Certificate was granted meet(s) the airworthiness requirements stated in Certification basis mentioned in this Data Sheet.

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I. General

1. Data Sheet No: TB 0020
2. Type / Variant or Model: EC 130 B4
3. Airworthiness Category: Normal category rotorcraft
4. Type Certificate Holder:
   Since June 1, 1997: EUROCOPTER
   Aéroport International Marseille Provence
   13725 MARIGNANE Cedex
   Before June 1, 1997: EUROCOPTER FRANCE
   Aéroport International Marseille Provence
   13725 MARIGNANE Cedex
   Before January 1, 1992: AEROSPATIALE
   37, Boulevard de Montmorency
   75781 PARIS Cedex 16
5. Manufacturer: As above
6. JAA recommendation date: December 14, 2000
7. DGAC-F Certification Date: December 14, 2000
8. JAA Application Date: March 23, 1998
9. SAA Application date: 24 June 2008
10. SAA Type certificate date: 15 June 2010

II. Certification Basis

1. JAA certification basis: As defined in CRI A1 issue 12 dated December 12, 2000
   and CRI A6 issue 10 dated December 1, 2000.
2. Airworthiness Requirements: JAR 27 first issue dated September 6, 1993,
   and orange paper amendment 27/98/1 effective February 16, 1998
   AR-27 «Airworthiness requirements for normal category rotorcraft»
3. Special Conditions: High intensity radiated field
4. Exemptions: For:
- The rear seat bench regarding JAR 27-562 and JAR 27-785 (a), (b), (j)
- Fuel systems regarding JAR 27.952 (a), (c), (d), (f), (g)

5. Equivalent safety findings: On:
- Main gearbox oil filter by pass
- Powerplant instrument markings

III. Technical Characteristics and Operational Limitations

1. Type design definition: Document 350A.04.7053

2. Description: Small single-engine helicopter designed as a derivative product of the former types certified model AS 350 B3.

3. Equipment: As per compliance with JAR 27 requirements and included in the original Type Design Standard or indicated on the section 2 - limitations of the Flight Manual.

4. Dimensions:
- Fuselage: Length 10.68 m (35.03 ft)
  Width 2.03 m (6.66 ft)
  Height 3.61 m (11.84 ft)
- Main Rotor: 3 blades – Diameter 10.69 m (35.07 ft)
- Tail Rotor: Fan-in-fan 10 blades – Diameter 1.00 m (3.28 ft)

5. Engine:
- TURBOMECA ARRIEL 2B1
- EASA Engine TCDS E.001 (Superseding DGAC-F Engine TCDS No M 19)
- SAA TCDS TD0043

5.1. Installed Engine Limits:

<table>
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<tr>
<th>Ratings</th>
<th>Gas generator Speed (NG)*</th>
<th>Exhaust gas Temperature (T4)**</th>
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<tr>
<td>Max transient</td>
<td>102.3 %</td>
<td>865°C (10 s)</td>
</tr>
<tr>
<td>Max take-off (5 min)</td>
<td>101.1 %</td>
<td>915°C</td>
</tr>
<tr>
<td>Max Continuous</td>
<td>97.1 %</td>
<td>849°C</td>
</tr>
</tbody>
</table>

* 100%: 52110 rpm
** Max Continuous during starting: 750 °C
5.2. Transmission Torque Limits:

Max transient (5s): 104 %
Max Take off: 100 %
Max Continuous: 92.7 %

(100% torque corresponds to 536 kW at 6000 rpm engine speed = 386 rpm main rotor speed)

6. Fluids (Fuel/Oil/Additives):
6.1. Fuel:
Refer to Flight Manual

6.2. Oil:
Refer to Flight Manual

7. Fluid capacities:
7.1. Fuel:
Total: 540 l (142.7 US gal)
Usable fuel: 538.7 l (142.32 US gal)

7.2. Oil:
Refer to Flight Manual

8. Airspeed limits:
VNE power on: 155 kt at sea level less 3 kt/1000 ft
VNE power off: 125 kt at sea level less 3 kt/1000 ft

9. Rotor Speed Limits:
Normal range power on: 375 to 405 rpm
Maximum power off: 430 rpm (aural warning 410 rpm)
Minimum power off: 320 rpm (aural warning 360 rpm)

10. Maximum Operating Altitude and Temperature:

10.1. Altitude HP:
- Take-off and landing: Refer to Flight Manual
- En route: 7010 m (23 000 ft)

10.2. Temperature:
- Minimum: -20° C or -40° C after modification 076302
- Maximum: ISA +35° C limited to +50° C

11. Operating Limitations:
- Day VFR
- Night VFR if modification 07-3664 is installed
- Flights under icing and freezing rain are prohibited
- Aerobatic manoeuvres are prohibited
- Flights under falling snow are prohibited except if sand filter is installed (see Flight Manual Supplement 9-14)

12. Maximum Certified Weights:
2427 kg (5350 lb)
13. Centre of Gravity Range:

Longitudinal:

L.H. limit: 0.10 m (3.94 in)
R.H. limit: 0.10 m (3.94 in)

14. Datum:

Longitudinal: 3.4 m (134 in) forward of the MRH centerline
Lateral: Symmetrical plane of the aircraft

15. Levelling Means:

Mechanical floor

16. Minimum Flight Crew:

1 pilot in left seat

17. Maximum number of occupants (including flight crew):

7 (3 at front and 4 at rear) or 8 (4 at front and 4 at rear) after modification OP-3673

18. Passenger Emergency Exit:

One door on each side of the fuselage

19. Maximum Baggage/Cargo Loads:

Maximum load in R.H. cargo compartment: 130 kg (287 lb) / 300 kg/m² (62.5 lb/ft²)
Maximum load in L.H. cargo compartment: 155 kg (342 lb) / 300 kg/m² (62.5 lb/ft²)
Maximum load in rear cargo compartment: 80 kg (176 lb) / 145 kg/m² (30 lb/ft²)
Maximum load in rear cabin floor: 495 kg (1091 lb) / 300 kg/m² (62.5 lb/ft²)
Maximum load in forward cabin floor: 405 kg (893 lb) / 300 kg/m² (62.5 lb/ft²)
20. Rotor blade and control movement: Refer to aircraft Maintenance Manual

IV. Operating and Service Instructions

1. Rotorcraft Flight Manual, Document No:
   - EC 130 B4 Flight Manual (in English), approved by DGAC-F on November 29, 2000 or later approved revision
   - EC 130 B4 Flight Manual (in French), approved by DGAC-F on May 27, 2002 or later approved revision.

2. Maintenance Manual, Document No:
   - EC 130 B4 Master Servicing Manual – chapter 04 (Airworthiness Limitations), approved by DGAC-F on December 6, 2000 or later approved revision/edition (in English).
   - Maintenance Manual
   - Overhaul Manual
   - Illustrated Parts Catalogue

3. Service Letters and Service Bulletins:
   As published by Eurocopter and approved by DGAC-F and EASA.

V. Notes

1. Eligible serial numbers: EC 130 B4 aircraft S/N 3358 and up.

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Head of Aeronautical Products
Type Certification Department

S. Haidenko