TYPE-CERTIFICATE

DATA SHEET

NO. EASA.IM.A.632

for

KODIAK 100 SERIES

Type Certificate Holder
Daher Aircraft Design LLC

1200 Turbine Drive
Sandpoint, ID 83864
United States of America

For models: Kodiak 100
## SECTION A: KODIAK 100 SERIES

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SECTION A: KODIAK 100 SERIES

A.I. General

1. Type/ Model/ Variant
   1.1 Type Kodiak 100 Series
   1.2 Model Kodiak 100
   1.3 Variant N/A

2. Airworthiness Category Normal

3. Manufacturer Kodiak Aircraft Company, Inc.
   (US Production Certificate 728 NM)

4. EASA Type Certification Application Date 18th March 2015

5. State of Design Authority Federal Aviation Administration (US)

6. State of Design Authority Type Certificate Date 30th May 2007

7. EASA Type Certification Date 6th April 2017

A.II. EASA Certification Basis

1. Reference Date for determining the applicable requirements 7th April 2005
   (FAA Application Date)

2. Airworthiness Requirements CS-23 Original Issue

3. Special Conditions
   - B-52 Human Factors - Integrated Avionics System
   - E-11 Cold Soaked Fuel
   - E-52 Turbine Engine Installation
   - F-52 Protection from effect of HIRF
   - F-54 Protection from the effects of lightning strike; indirect effects

4. Exemptions None

5. (Reserved) Deviations None

6. Equivalent Safety Findings None

7. Environmental Protection ICAO Annex 16, Volume 1 see EASA Type Certificate Data Sheet Noise ref TCDSN IM.A.632.

8. Operational Suitability Certification Basis
   8.1 Master Minimum Equipment List CS-GEN-MMEL Initial Issue
A.III. Technical Characteristics and Operational Limitations

1. Type Design Definition

KODIAK 100 Master Drawing List (Quest report # 100-101-000) Rev.62 or later approved revisions

Aircraft serial numbers 100-001 through 100-0034 must have Quest Service Notice SN-025 installed in order to allow operation at the 7,255 lb maximum takeoff weight.

All serial numbers of KODIAK 100 aircraft must be equipped with Field Service Instruction FSI-148, Standby Battery System.

2. Description

Kodiak 100A Basic Data (Doc. 101-000-010 Rev.01)

3. Equipment

The basic required equipment as prescribed in the applicable airworthiness regulations (see Certification Basis) must be installed in the aircraft for airworthiness certification.

Additional Equipment Necessary for Type Certification: The latest Approved Revision of the KODIAK 100 “Pilots Operating Handbook and FAA Approved Flight Manual.”

4. Dimensions

Length: 10.42 m (34.2 ft)
Span: 13.72 m (45.0 ft)
Height: 4.48 m (14.7 ft)

5. Engine

5.1. Model
Pratt and Whitney Canada, Inc. PT6A-34

5.2 Type Certificate
CA E-6 (Transport Canada)

6. Propeller

6.1 Model
Hartzell HC-E4N-3P(Y)/D9511FSB

6.2 Type Certificate
EASA.IM.P.133

6.3 Number of blades
4

6.4 Diameter
95" minimum, 96" maximum; no further tolerance permitted

6.5 Sense of Rotation

6.6 Static RPM Limits
Stabilized ground operation prohibited from between 450 rpm and 1,050 rpm

Pitch angle limits to be measured at 30” radial distance. See Propeller TC Data Sheet P10NE for additional details and limitations.
7. Fluids

7.1 Fuel

Primary Fuel: Jet A

Note that all fuels must conform to Pratt and Whitney Canada Specification CPW204

7.2 Oil

See Pratt and Whitney Canada Service Bulletin Number 1001 for approved oil.

Note: add weight of unusable oil to the certificated empty weight.

7.3 Coolant

N/A

8. Fluid capacities

9.1 Fuel

One 160 gallon (605,7 liters) tank in each wing at 83.4” (2,12 m) aft of datum; 157.5 gallons (596,2 l) usable, 2.5 gallons (9,5 l) unusable

(320 gallons/1211,4 liters total; 315 gallons/1192,4 l usable, 5 gallons/19l unusable)

Note: add weight of unusable fuel to the certificated empty weight.

9.2 Oil

13 qt (12,3 liters) total at 18.9” (0,48 m) forward of datum; 9 qt (8,5 l) drainable, 4 qt (3,8 l) undrainable

9.3 Coolant system capacity

N/A

9. Air Speeds

\[ V_0: \quad 143 \text{ KCAS (142 KIAS)} \]
\[ V_{FE}(10^\circ): \quad 139 \text{ KCAS (138 KIAS)} \]
\[ V_{FE}(20^\circ): \quad 120 \text{ KCAS (120 KIAS)} \]
\[ V_{FE}(35^\circ): \quad 108 \text{ KCAS (108 KIAS)} \]
\[ V_{MO}: \quad 180 \text{ KCAS (182 KIAS)} \]

10. Approved Operations Capability


Flight into known icing conditions allowed when the required equipment listed in the latest FAA approved revision of the KODIAK 100 POH/AFM “TKS Ice Protection System” supplement is installed; installation may have been accomplished when the airplane was produced (may have required system activation in accordance with Quest Service Notice SN-043), or may have been installed in accordance with
the latest FAA approved revision of Quest Field Service Instruction FSI-013.
Minimum Operating OAT -25°C for Serial Numbers 100-0001 thru 100-0017 without Quest Service Bulletin SB-016 compliance.
Minimum Operating OAT -55°C for Serial Numbers 100-0018 and above and Serial Numbers 100-0001 thru 100-0017 with Quest Service Bulletin SB-016 compliance.

11. Maximum Operating Altitude
- 4267m (14000 ft) without approved oxygen system installed.
- 7620m (25000 ft) with approved oxygen system installed.

12. Maximum Masses

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Ramp:</td>
<td>3314 kg (7305 lb)</td>
</tr>
<tr>
<td>Maximum Landing Standard:</td>
<td>3035 kg (6690 lb)</td>
</tr>
<tr>
<td>Optional:</td>
<td>3291 kg (7255 lb)</td>
</tr>
<tr>
<td>Maximum Takeoff:</td>
<td>3291 kg (7255 lb)</td>
</tr>
<tr>
<td>Maximum Zero-Fuel:</td>
<td>3207 kg (7071 lb)</td>
</tr>
<tr>
<td>Design Minimum Flying Weight:</td>
<td>1846 kg (4,070 lb)</td>
</tr>
</tbody>
</table>

Optional landing weight allowed only when the aircraft is operated per, and the required tires and VGs are installed per the limitations section of the latest approved KODIAK 100 POH/AFM Supplement “Oversized Tires and Landing Weight” and the supplement is incorporated into the aircraft POH/AFM.

13. Centre of Gravity Range

<table>
<thead>
<tr>
<th>Description</th>
<th>Aft Limits:</th>
<th>Forward Limits:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Takeoff and flight</td>
<td>2.05 m</td>
<td>1.62 m</td>
</tr>
<tr>
<td></td>
<td>m aft of datum (1846 kg to 3291 kg)</td>
<td>m aft of datum (1846 kg to 2268 kg)</td>
</tr>
<tr>
<td></td>
<td>1.80 m</td>
<td></td>
</tr>
<tr>
<td></td>
<td>m aft of datum at 3291 kg</td>
<td>3291 kg</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Description</th>
<th>Aft Limits:</th>
<th>Forward Limits:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Landing (Standard)</td>
<td>2.05 m</td>
<td>1.62 m</td>
</tr>
<tr>
<td></td>
<td>m aft of datum (1846 kg to 3035 kg)</td>
<td>m aft of datum (1846 kg to 2268 kg)</td>
</tr>
<tr>
<td></td>
<td>1.76 m</td>
<td></td>
</tr>
<tr>
<td></td>
<td>m aft of datum at 3035 kg</td>
<td>3035 kg</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Description</th>
<th>Aft Limits:</th>
<th>Forward Limits:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Landing (Optional)</td>
<td>2.05 m</td>
<td>1.62 m</td>
</tr>
<tr>
<td></td>
<td>m aft of datum (1846 kg to 3291 kg)</td>
<td>m aft of datum (1846 kg to 2268 kg)</td>
</tr>
<tr>
<td></td>
<td>1.76 m</td>
<td></td>
</tr>
<tr>
<td></td>
<td>m aft of datum at 3035 kg</td>
<td>3035 kg</td>
</tr>
</tbody>
</table>
1.84 m aft of datum at 3291 kg

**Straight-line variation between points**

Optional landing weight allowed only when the aircraft is operated per, and the required tires and vortex generators (VGs) are installed per the limitations section of the latest approved KODIAK 100 POH/AFM Supplement “Oversized Tires and Landing Weight” and the supplement is incorporated into the aircraft POH/AFM.

14. Datum
The forward face of the firewall represent the datum 0.0 meters.

15. Control surface deflections

<table>
<thead>
<tr>
<th>Surface</th>
<th>Up/Down</th>
<th>± °</th>
<th>± °</th>
<th>± °</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wing Flaps</td>
<td>0°</td>
<td>10° +1/2</td>
<td>20° ±2°</td>
<td>35° ±2°</td>
</tr>
<tr>
<td>Ailerons</td>
<td>Up: 28° ±1°</td>
<td></td>
<td>Down: 15° ±1°</td>
<td></td>
</tr>
<tr>
<td>Aileron Trim Tab</td>
<td>Up: 30° ±2°</td>
<td></td>
<td>Down: 30° ±2°</td>
<td></td>
</tr>
<tr>
<td>Elevator</td>
<td>Up: 30° ±1°</td>
<td></td>
<td>Down: 22° ±1°</td>
<td></td>
</tr>
<tr>
<td>Elevator trim tab</td>
<td>Up: 15° ±2°</td>
<td></td>
<td>Down: 12° ±1°</td>
<td></td>
</tr>
<tr>
<td>Rudder</td>
<td>Right: 26° ±1°</td>
<td></td>
<td>Left: 26° ±1°</td>
<td></td>
</tr>
</tbody>
</table>

*See the latest FAA approved revision of the KODIAK 100 “Airplane Maintenance Manual”, or other approved data, for flap rigging instructions and setting Flaps up (0°) configuration.*

16. Levelling Means
Place a level on the seat tracks in the aft cabin next to the cargo door forward post.

*See the latest approved revision of the KODIAK 100 “Pilots Operating Handbook and FAA Approved Flight Manual” for additional details.*

17. Minimum Flight Crew
1 pilot

18. Maximum Passenger Seating Capacity
Up to 9 seats total, including 1 seat located at 40” aft of datum and up to 8 additional seats located in accordance with latest approved revision of the KODIAK 100 “Pilots Operating Handbook and FAA Approved Flight Manual”

19. Baggage/ Cargo Compartments
As defined in latest approved revision of the KODIAK 100 “Pilots Operating Handbook and FAA Approved Flight Manual”.
20. Wheels and Tyres

<table>
<thead>
<tr>
<th>Standard Tire Sizes</th>
<th>Nose</th>
<th>6.50 x 8, 8-ply, tube type</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Main</td>
<td>8.50 x 10, 8-ply, tube type</td>
</tr>
<tr>
<td>Optional Tire Sizes</td>
<td>Nose</td>
<td>22 x 8.00, 6-ply, tube type</td>
</tr>
<tr>
<td></td>
<td>Main</td>
<td>29 x 11.0, 10-ply, tubeless</td>
</tr>
</tbody>
</table>

21. (Reserved)
A.IV. **Operating and Service Instructions**

1. **Flight Manual**
   
   KODIAK 100 “*Pilots Operating Handbook and FAA Approved Flight Manual*” AM901.0 - Rev. 18 or later approved revision.
   
   Including the KODIAK 100 POH/AFM Supplement AM901.107 “*EASA CERTIFIED AIRPLANES*” (at latest approved revision).

2. **Maintenance Manual**
   
   KODIAK 100 “*Airplane Maintenance Manual*” AM902.0 - Rev. 22 or later approved revision.

3. **Structural Repair Manual**
   
   KODIAK 100 “*Airplane Structural Repair Manual*” AM907.0 - Rev. 00 or later approved revision

4. **Weight and Balance Manual**
   
   Refer to the approved “*Pilots Operating Handbook and FAA Approved Flight Manual*”.

5. **Illustrated Parts Catalogue**
   
   KODIAK 100 “*Illustrated Parts Catalog*” AM906.0 - Rev. 03 or later approved revision

A.V. **Operational Suitability Data (OSD)**

1. **Master Minimum Equipment List (MMEL)**
   
   Document AM908.0 - Rev.00 or later approved revision
A.VI. Notes

Note 1. A current weight and balance report, including a list of equipment included in the certificated empty weight, and loading instructions when necessary must be provided for each aircraft at the time of original certification.

Note 2. The placards specified in the latest approved revision of the KODIAK 100 “Pilots Operating Handbook and FAA Approved Flight Manual” are required.

Note 3. The airplane must be subsequently maintained in accordance with the Instructions for Continued Airworthiness, and Airworthiness Limitations section, as contained in the latest approved revision of the KODIAK 100 “Airplane Maintenance Manual”, or other approved data.

Note 4. The airplane shall be manufactured in accordance with the latest approved revision of the KODIAK 100 “Master Drawing List”, or other approved data.

Note 5. Parachuting configuration and operations are not approved.

Note 6. (Reserved)

Note 7. Requirements for operations under Commission Regulation (EU) No965/2012 (as amended) have been identified in CRI O-02.

Note 8. The Kodiak 100 is eligible for SET-IMC operation according to Commission Regulation (EU) 2017/363 when the appropriate equipment and instruments required by the operating requirements (Commission Regulation (EU) No. 965/2012 as amended apply) are installed, approved and operating as defined by the approved Master Minimum Equipment List (MMEL) or Minimum Equipment List (MEL).
### SECTION ADMINISTRATIVE

#### I. Acronyms & Abbreviations

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>AFM</td>
<td>Airplane Flight Manual</td>
</tr>
<tr>
<td>Amdt.</td>
<td>Amendment</td>
</tr>
<tr>
<td>AMM</td>
<td>Airplane Maintenance Manual</td>
</tr>
<tr>
<td>CS</td>
<td>Certification Specifications</td>
</tr>
<tr>
<td>EASA</td>
<td>European Union Aviation Safety Agency</td>
</tr>
<tr>
<td>ft</td>
<td>feet</td>
</tr>
<tr>
<td>IAS</td>
<td>Indicated Airspeed</td>
</tr>
<tr>
<td>ICAO</td>
<td>International Civil Aviation Organization</td>
</tr>
<tr>
<td>kg</td>
<td>kilograms</td>
</tr>
<tr>
<td>km/h</td>
<td>kilometres per hour</td>
</tr>
<tr>
<td>KCAS</td>
<td>Calibrated Air Speed (knots)</td>
</tr>
<tr>
<td>KIAS</td>
<td>Indicated Air Speed (knots)</td>
</tr>
<tr>
<td>POH</td>
<td>Pilot Operating Handbook</td>
</tr>
<tr>
<td>TCDS</td>
<td>Type Certificate Data Sheet</td>
</tr>
<tr>
<td>TCDSN</td>
<td>Type Certificate Data Sheet Noise</td>
</tr>
</tbody>
</table>

#### II. Type Certificate Holder Record

Until 6<sup>th</sup> November 2019: Quest Aircraft Design LLC
1200 Turbine Drive
Sandpoint, ID 83864
United States of America

From 7<sup>th</sup> November 2019: Daher Aircraft Design LLC
1200 Turbine Drive
Sandpoint, ID 83864
United States of America

#### III. Change Record

<table>
<thead>
<tr>
<th>Issue</th>
<th>Date</th>
<th>Changes</th>
<th>TC Issue No. &amp; Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Issue 01</td>
<td>11 May 2017</td>
<td>Initial Issue</td>
<td>Initial Issue, 06/04/17</td>
</tr>
<tr>
<td>Issue 02</td>
<td>05 July 2017</td>
<td>Removal of Note 6 and corresponding update of Section A.IV (Operating and Service Instructions)</td>
<td></td>
</tr>
<tr>
<td>Issue 03</td>
<td>17 August 2017</td>
<td>Added Note 8</td>
<td></td>
</tr>
<tr>
<td>Issue 04</td>
<td>14 November 2017</td>
<td>Updated Note 7</td>
<td></td>
</tr>
<tr>
<td>Issue 05</td>
<td>05 February 2020</td>
<td>MZF Weight updated (FAA TCDS Rev.21) TC Holder changed to Daher (FAA TCDS Rev.22) Manufacturer data updated</td>
<td>Issue 02, 05/02/2020</td>
</tr>
</tbody>
</table>

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