Issue: 07 Date: 03 Apr 2023



# 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

Kodiak 200 (commercial name Kodiak "900")



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#### Kodiak 100 Series

Date: 03 Apr 2023

TCDS No.: EASA.IM.A.632 Issue: 07

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## SECTION A: KODIAK 100

## 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 18<sup>th</sup> March 2015

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

6. State of Design Authority Type Certificate Date
 7. EASA Type Certification Date
 30<sup>th</sup> May 2007
 6<sup>th</sup> April 2017

## A.II. <u>EASA Certification Basis</u>

1. Reference Date for determining the applicable requirements 7<sup>th</sup> 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

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## 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 (or any approved design

change deemed equivalent by EASA).

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 Airplane

Flight Manual."

4. Dimensions Length: 10,42 m (34.2 ft)

Span: 13.72 m (45.0 ft) Height: 4,48m (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 Right-hand 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.



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7. Fluids

7.1 Fuel Primary Fuel: Jet A

Alternate Fuels: Jet A-1, JP-1, JP-5, JP-8,

No. 3 Jet Fuel (People's Republic of China)

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

I)usable, 2.5 gallons (9,5 I)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<sub>0</sub>: 143 KCAS (142 KIAS)

V<sub>FE</sub> (10°): 139 KCAS (138 KIAS)
 V<sub>FE</sub> (20°): 120 KCAS (120 KIAS)
 V<sub>FE</sub> (35°): 108 KCAS (108 KIAS)
 V<sub>MO</sub>: 180 KCAS (182 KIAS)

10. Approved Operations Capability

Day-Night, Visual Flight Rules (VFR) and Instrument Flight Rules (IFR).

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



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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

Maximum Ramp: 3314 kg (7305 lb)

Maximum Landing

 Standard:
 3035 kg (6690 lb)

 Optional:
 3291 kg (7255 lb)

 Maximum Takeoff:
 3291 kg (7255 lb)

 Maximum Zero-Fuel:
 3207 kg (7071 lb)

 Design Minimum Flying Weight:
 1846 kg (4,070 lb)

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

Takeoff and flight

Aft Limits: 2.05 m aft of datum (1846 kg to 3291 kg) Forward Limits: 1.62 m aft of datum (1846 kg to 2268 kg)

1.80 m aft of datum at 3291 kg

Landing (Standard)

Aft Limits: 2.05 m aft of datum (1846 kg to 3035 kg) Forward Limits: 1.62 m aft of datum (1846 kg to 2268 kg)

1.76 m aft of datum at 3035 kg

Landing (Optional)

Aft Limits: 2.05 m aft of datum (1846 kg to 3291 kg) Forward Limits: 1.62 m aft of datum (1846 kg to 2268 kg)

1.76 m aft of datum at 3035 kg



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## 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

10° +1°/-2° Wing Flaps:  $0^{\circ}$ 20° ±2° 35° ±2° Down: 15° ±1° Ailerons: Up: 28° ±1° Aileron Trim Tab: Up: 30° ±2° Down: 30° ±2° Elevator: Down: 22° ±1° Up: 30° ±1° Elevator trim tab: Up: 15° ±2° Down: 12° ±1° Left: 26° ±1° Rudder: Right: 26° ±1°

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 Airplane 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 Airplane Flight

Manual"

19. Baggage/ Cargo Compartments As defined in latest approved revision of the

KODIAK 100 "Pilots Operating Handbook and

FAA Approved Airplane Flight Manual".



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20. Wheels and Tyres

21. (Reserved)



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## A.IV. Operating and Service Instructions

1. Flight Manual KODIAK 100 "Pilots Operating Handbook and FAA"

Approved Airplane 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 "Airplance Maintenance Manual" AM902.0

- Rev. 22 or later approved revision.

3. Structural Repair Manual KODIAK 100 "Airplance 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 Airplane 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



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## 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 Airplane 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).



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## SECTION B: KODIAK 200 (COMMERCIALLY KNOWN AS KODIAK "900")

The marketing name for the model Kodiak 200 is the "Kodiak 900". Some documents that apply to the Kodiak 200 model such as the Airplane flight manual and Airplane maintenance manual are labeled with the Kodiak 900 trade name. Documents that are entitled with Kodiak 900 are applicable to the Kodiak 200 model.

#### B.I. General

1. Type/ Model/ Variant

1.1 Type Kodiak 100 Series

1.2 Model Kodiak 200

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 11<sup>th</sup> October 2019

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

6. State of Design Authority Type Certificate Date 30<sup>th</sup> August 2022 7. EASA Type Certification Date 3<sup>rd</sup> April 2023

## **B.II.** EASA Certification Basis

1. Reference Date for determining the applicable requirements 23<sup>rd</sup> September 2020

2. Airworthiness Requirements CS-23 Amdt 5

(only applicable for 23.2010

and 23.2150) CS-23 Amdt 4

3. Special Conditions

B-52 Human Factors - Integrated Avionics

System

E-11 Cold Soaked Fuel

E-52 Turbine Engine Installation

4. Exemptions None5. (Reserved) Deviations None6. Equivalent Safety Findings None

7. Environmental Protection ICAO Annex 16, Volume 1 see

EASA Type Certificate Data Sheet Noise ref TCDSN

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8. Operational Suitability Certification Basis

8.1 Master Minimum Equipment List CS-GEN-MMEL Issue 2



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## **B.III.** Technical Characteristics and Operational Limitations

1. Type Design Definition Master Drawing List, KODIAK 200 (Quest report #

150-101-000) Rev.01 or later approved revisions

2. Description Kodiak 200 Basic Data (Doc. 150-000-010 Rev.01 or

later approved revision)

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 900 "Pilots Operating Handbook and FAA Approved Airplane

Flight Manual."

4. Dimensions Length: 11,49 m (37.7 ft)

Span: 13.72 m (45.0 ft) Height: 4,91m (16.1 ft)

5. Engine

5.1. Model Pratt and Whitney Canada, Inc. PT6A-140A

5.2 Type Certificate IM.E.094

6. Propeller

6.1 Model Hartzell HC-E5W-3/NC9405B

6.2 Type Certificate EASA.IM.P.125

6.3 Number of blades 5

6.4 Diameter 97"; no further tolerance permitted

6.5 Sense of Rotation Right-hand rotation

6.6 Static RPM Limits Maximum 1900rpm Stabilized ground operation

prohibited from between 400 rpm and 1,150 rpm

Pitch angle limits to be measured at 30" radial distance. See Propeller TC Data Sheet

EASA.IM.P.125 for additional details and limitations.

7. Fluids

7.1 Fuel Primary Fuel: Jet A

Alternate Fuels: Jet A-1, JP-5, JP-8,

No. 3 Jet Fuel (People's Republic of China)



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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.

7.3 Coolant N/A

8. Fluid capacities

9.1 Fuel One 160 gallon (605,7 liters) tank in each wing at

94.2" (2.39 m) aft of datum; 157.5 gallons (596,2 l)

usable, 3.25 gallons (12.3 l)unusable

(320 gallons/1211,3 liters total; 315 gallons/1192,4 l

usable, 6.5 gallons/24.6 l unusable)

Note: add weight of unusable fuel to the certificated

empty weight.

9.2 Oil 14.4 qt (13.6 liters) total at 22.3" (0,57 m) forward of

datum; 14 qt (13,2 l) drainable, 0.4 qt (0,4 l)

undrainable

See Pratt and Whitney Canada Service Bulletin Number 1001 for approved oil. Note: add weight of

unusable oil to the certificated empty weight.

9.3 Coolant system capacity N/A

9. Air Speeds V<sub>0</sub>(at 8.000lbs) 153 KCAS (152 KIAS)

V<sub>FE</sub> (10°): 139 KCAS (137 KIAS) V<sub>FE</sub> (20°): 125 KCAS (123 KIAS) V<sub>FE</sub> (35°): 120 KCAS (118 KIAS) V<sub>MO</sub>: 190 KCAS (187 KIAS)

10. Approved Operations Capability

Day-Night, Visual Flight Rules (VFR) and Instrument

Flight Rules (IFR).

Flight into known icing conditions allowed when the required equipment listed in the latest FAA approved revision of the KODIAK 900 POH/AFM "TKS Ice

Protection System" supplement is installed;

11. Maximum Operating Altitude

- 4267m (14000 ft) without approved oxygen system installed.
- 7620m (25000 ft) with approved oxygen system installed.
- 6096 m (20,000 ft) in icing conditions or any flight conditions with ice on the airplane.



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#### 12. Maximum Masses

Maximum Ramp: 3674 kg (8100 lb) **Maximum Landing** 3538 kg (7800 lb) Maximum Takeoff: 3629 kg (8000 lb) Design Minimum Flying Weight: 2195 kg (4,840 lb)

See the latest approved revision of the Kodiak 900 "Pilots Operating Handbook and FAA Approved Airplane Flight Manual" for additional details.

## 13. Centre of Gravity Range

Aft Limits: 2.35 m aft of datum (3629 kg)

Forward Limits: 2.14 m aft of datum (2830 kg to 3629 kg)

2.00 m aft of datum (2195 kg to 2380 kg) Straight-line variation between points

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

#### 15. Control surface deflections

10° +1°/-2° Wing Flaps: 0° 20° ±2° 35° ±2° Ailerons: Up: 28° ±1° Down: 15° ±1° Aileron Trim Tab: Up: 30° ±2° Down: 30° ±2° Elevator: Up: 30° ±1° Down: 22° ±1° Elevator trim tab: Up: 18° +1°/-0° Down: 12° ±1° Rudder: Left: 20° ±1° Right: 20° ±1°

See the latest FAA approved revision of the KODIAK 900 " Airplane Maintenance Manual", or other approved data, for flap rigging instructions and setting Flaps up  $(0^{\circ})$  configuration.

Place a level on the seat tracks in the aft cabin 16. Levelling Means

next to the cargo door forward post.

See the latest approved revision of the KODIAK 900 "Pilots Operating Handbook and FAA Approved Airplane Flight Manual" for

additional details.

17. Minimum Flight Crew 1 pilot

18. Maximum Passenger Seating Capacity Up to 10 seats total, including 2 seats located

> at 41" aft of datum and up to 8 additional seats located in accordance with latest approved revision of the KODIAK 900 "Pilots Operating

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Handbook and FAA Approved Airplane Flight

Manual"

19. Baggage/ Cargo Compartments As defined in latest approved revision of the

KODIAK 900 "Pilots Operating Handbook and

FAA Approved Airplane Flight Manual".

20. Wheels and Tyres

Standard Tire Sizes Nose 6.50 x 8, 8-ply, tube type

Main 8.50 x 10, 8-ply, tube type

21. (Reserved)

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# **B.IV.** Operating and Service Instructions

1. Flight Manual KODIAK 900 "Pilots Operating Handbook and FAA"

Approved Airplane Flight Manual" AM921.0 - Rev. 01 or

later approved revision.

2. Maintenance Manual KODIAK 900 "Airplance Maintenance Manual" AM922.0

- Rev. 01 or later approved revision.

3. Structural Repair Manual (Reserved)

4. Weight and Balance Manual Refer to the approved "Pilots Operating Handbook and

FAA Approved Airplane Flight Manual". - Note 9

5. Illustrated Parts Catalogue (Reserved)

# B.V. Operational Suitability Data (OSD)

1. Master Minimum Equipment List (MMEL) Document AM918.0 - Rev.01 or later approved revision

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#### **B.VI.** Notes

Note 9. 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 10. The placards specified in the latest approved revision of the KODIAK 900 "Pilots Operating Handbook and FAA Approved Airplane Flight Manual" are required.
- Note 11. 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 900 "Airplane Maintenance Manual", or other approved data.
- Note 12. The airplane shall be manufactured in accordance with the latest approved revision of the KODIAK 200 "Master Drawing List", or other approved data.
- Note 13. Parachuting configuration and operations are not approved.
- Note 14. Requirements for operations under Commission Regulation (EU) No965/2012 (as amended) have been identified in CRI O-02.
- Note 15. The Kodiak 900 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).



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## **SECTION ADMINISTRATIVE**

## I. Acronyms & Abbreviations

AFM Airplane Flight Manual

Amdt. Amendment

AMM Airplane Maintenance Manual CS Certification Specifications

EASA European Union Aviation Safety Agency

ft feet

IAS Indicated Airspeed

ICAO International Civil Aviation Organization

kg kilograms

km/h kilometres per hour

KCAS Calibrated Air Speed (knots)
KIAS Indicated Air Speed (knots)
POH Pilot Operating Handbook
TCDS Type Certificate Data Sheet

TCDSN Type Certificate Data Sheet Noise

## 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

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# III. Change Record

Issue	Date	Changes	TC Issue No. & Date
Issue 01	11 May 2017	Initial Issue	Initial Issue, 06/04/17
Issue 02	05 July 2017	Removal of Note 6 and corresponding update of	
		Section A.IV (Operating and Service Instructions)	
Issue 03	17 August 2017	Added Note 8	
Issue 04	14 November 2017	Updated Note 7	
Issue 05	05 February 2020	MZF Weight updated (FAA TCDS Rev.21)	Issue 02, 05/02/2020
		TC Holder changed to Daher (FAA TCDS Rev.22)	
		Manufacturer data updated	
Issue 06	05 November 2020	Added clarification in Section A.III Para 1 allowing	
		EASA approved alternatives to Field Service	
		Instruction FSI-148, Standby Battery System.	
Issue 07	03 April 2023	Added Model Kodiak 200 ("900") - Section B	Issue 03, 03/04/2023
		Minor wording correction in Section A	