

型号认可证数据单

THE VALIDATION DATA SHEET

编号/No: VTC107A

版次/Revision: 1

型号/Type:

DHC-8-400 系列

DHC-8-400

DHC-8-401

DHC-8-402

批准人/Approved By: Yang Zhenmei



职务/Title: Deputy Director General of
CAAC-AAD

日期/Date: 2015 年 1 月 14 日

本数据单是型号认可证(编号: VTC107A)的组成部分, 它规定了符合中国民用航空局的适航要求所颁发此型号认可证的产品状态和限制。

This data sheet, which is part of Validation of Type Certificate (No: VTC107A), prescribes condition and limitation under which the product for which the type certificate was issued meets the airworthiness requirements of the Chinese Civil Aviation Regulation.

型号认可证持有人/Validation of Type Certificate Holder:

BOMBARDIER INCORPORATED

123 Garratt Boulevard

Downsview, Ontario

M3K1Y5

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CAAC 认可数据单和型号合格证数据单
CAAC Validation Data Sheet and Type Certificate Data Sheet

	中国民用航空局认可数据单号、版次和颁发日期 CAAC Validation Data Sheet Number, Revision and issuance date	型号合格证数据单号、版次和颁发日期 Type Certificate Data Sheet Number, Revision and issuance date
当前/ Current	VTC0107A for DHC-8-400 系列, Revision 1, 2015 年 1 月 14 日	TCCA TCDS A-142, Rev.21, Dec. 8, 1999
历史/ History	VTC0107A for DHC-8-400 系列, Revision 0, 2000 年 8 月 16 日	TCCA TCDS A-142, Rev.21, Dec. 8, 1999

一、总则/GENERAL

1. DHC-8-400 系列/DHC-8 Series 400

型号/MODEL: DHC-8-400 (运输类/ Transport Category)

型号/MODEL: DHC-8-401 (运输类/ Transport Category)

型号/MODEL: DHC-8-402 (运输类/ Transport Category)

2. 加拿大运输部型号合格证: No. A-142, 颁发日期: 1999 年 10 月 14 日

Transport Canada (TCCA) Type Certificate : No. A-142, Date of Issue : October 14, 1999

3. 加拿大运输部型号合格证数据单: No. A-142 第 21 版, 颁发日期: 1999 年 12 月 8 日

TCCA Type Certificate Data Sheet: No. A-142 Issue 21, Date of Issue : December 8, 1999

二、合格审定基础/CERTIFICATION BASIS

1. 加拿大运输部型号合格审定基础：见加拿大运输部型号合格证数据单 A-142 第 21 版。

TCCA Certification Basis: As defined in TCCA Type Certificate Data Sheet: No. A-142 Issue 21.

2. 中国民用航空局型号认可审查基础：除以下条款外，中国民用航空局接受加拿大运输部审定基础作为认可基础并附加 CAAC 的附加技术条件：

a) 豁免条款 CCAR25.571(e)(1) 第二次修订

CCAR25.1435(b)(1) 第二次修订

b) 等效安全条款 CCAR25.809(b) 第二次修订

c) CAAC 附加技术条件：

应符合 CCAR-26 部《运输类飞机的持续适航和安全改进规定》的要求。对于未来 CCAR-26 部的任何修订版本，本 TC 持有人都应表明对其适用部分的符合性；

根据 CAAC 文件 CAO No. 2012-30，应表明符合《关于运输类飞机点火源防护追溯要求的通知》的要求。

以下规章的符合性已经被发现：

CCAR-26 部 26.11, 26.43, 26.45 和 26.49 条。

CAO No. 2012-30

CAAC Validation Basis : CAAC Accepts TCCA Certification Basis as Validation Basis Except as Following and CAAC additional technical conditions :

a) Exemption CCAR25.571(e)(1) at Amendment 25-2

CCAR25.1435(b)(1) at Amendment 25-2

b) Equivalent Safety finding CCAR25.809(b) at Amendment 25-2

c) CAAC additional technical conditions :

CCAR-26-“Continued Airworthiness and Safety Improvements for Transport Category Airplanes” shall be complied with. For any future CCAR-26 version, the holder of this TC shall demonstrate compliance with the applicable sections.

The CAAC document (CAO No. 2012-30) “The Retroactive Requirements for Transport Category Airplanes Ignition Source Protection” shall be complied with.

Compliance has been found for the following regulations

CCAR-26 26.11, 26.43, 26.45 and 26.49.

CAO No.2012-30

三、技术特性和使用限制**TECHNICAL CHARACTERISTICS AND OPERATIONAL LIMITATIONS**

1. 加拿大运输部型号合格审定基础：见加拿大运输部型号合格证数据单 A-142 第 21 版

发动机 2 台加拿大普惠公司的 PW150A 发动机。

Engines 2 Pratt & Whitney Aircraft of Canada PW150A engines.

燃油/Fuel:

牌号/Type	规范/ Specifications		
Kerosene Jet A, A-1 JP5 JP8	加拿大 Canada CGSB 3.23 3-GP-24	美国 U.S.A ASTM D1655 MIL-T-5624	
三号喷气发动 机燃油 PRC Jet Fuel No. 3			中国 GB6537-94

Wide Cut JET B JP-4	加拿大 Canada CGSB 3.22 CGSB 3.22	美国 U.S.A ASTM D1655 MIL-T-5624	
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滑油 符合 MIL-L-23699 规范的滑油（详见批准的飞行手册）
Oil Oils conforming to specification MIL-L-23699
(See AFM as listed in Approved Publications.)

发动机限制 详见批准的飞行手册
Engine Limits See AFM as listed in Approved Publications.

重心限制 详见批准的飞行手册
C.G. Limits See AFM as listed in Approved Publications.

最大重量 DHC-8-400, 401, 402, with Modsum 4-201539 incorporated
(质量) 公斤/kg 磅/lb
Maximum 滑行/Ramp weight 28,077 61,900
Weight 起飞/Take-off 27,987 61,700
(Mass) 着陆/Landing 27,442 61,500
零燃油/Zero fuel 25,174 55,500

DHC-8-400, 401, 402, with Modsum 4-308807 incorporated
公斤/kg 磅/lb
滑行/Ramp weight 29,089 64,130
起飞/Take-off 28,998 63,930
着陆/Landing 28,009 61,750
零燃油/Zero fuel 25,855 57,000

DHC-8-400, 401, 402, with Modsum 4-308907 incorporated
公斤/kg 磅/lb
滑行/Ramp weight 29,347 64,700
起飞/Take-off 29,257 64,500
着陆/Landing 28,009 61,750
零燃油/Zero fuel 25,855 57,000

螺旋桨和螺旋桨 道奇型号/Dowty Aerospace Model: R408/6-123-F/17
限制
Propeller and 桨叶直径/Blade Diameter: 4.11 米/M (13.5 英尺/ft.)
Propeller Limits (名义/nominal)

0.70 半径处桨叶设置/Pitch settings at 0.70 radius:

顺桨/Feather 84.5°
飞行限动（电动）/Flight fine (Electronic) 16.5°
飞行限动（液压）/Flight fine (Hydraulic) 16°
地面限动/Ground fine -3.5°

全反桨/Full reverse	-18.0°
起飞转速/Propeller (Np) -Take-off	1020 转数/分/rpm
最大连续/Max. continuous	1020 转数/分/rpm
空速限制 (指示空速)	高度/Altitude 节/Knots
Airspeed Limits (IAS)	V _{MO} (最大使用 Maximum Operating) 0 to 8000 英尺/ft. 245
	10000 英尺/ft. 282
	18000 英尺/ft. 286
	20000 英尺/ft. 275
	25000 英尺/ft. 248
	V _{LO} (起落架收放/Landing gear operation) 200
	V _{LE} (起落架收放/Landing gear extended) 215
	(更为详细的空速限制见批准的飞行手册) (For further airspeed limits see AFM as listed in Approved Publications.)
最小飞行机组 Minimum Crew	2 人 (正驾驶和副驾驶) 2 (pilot and copilot)
最大乘员 Maximum Occupants	<u>DHC-8-400 型/Model DHC-8-400</u> 不超过 74 人, 其中含驾驶员 2 人, 空乘 3 人和空中检查员 1 人 (满座 68 名旅客) Not to exceed 74, including 2 pilots, 3 attendants and 1 check pilot (68 passengers when fitted with an approved interior).
	<u>DHC-8-401 型/Model DHC-8-401</u> 不超过 76 人, 其中含驾驶员 2 人, 空乘 3 人和空中检查员 1 人 (满座 70 名旅客) Not to exceed 76, including 2 pilots, 3 attendants and 1 check pilot (70 passengers when fitted with an approved interior).
	<u>DHC-8-402 型/Model DHC-8-402</u> 不超过 84 人, 其中含驾驶员 2 人, 空乘 3 人和空中检查员 1 人 (满座 78 名旅客) Not to exceed 84, including 2 pilots, 3 attendants and 1 check pilot (78 passengers when fitted with an approved interior).
参考基准 Reference Datum	位于中心线机身下部 1087.1cm (428.0 in) 站位的平台 Plate located on centerline at Station 428.0 in.(1087.1 cm) on Underside of fuselage
水平措施 Levelling Means	右手应急出口处的铅垂和标尺 Plumb bob and target in RH emergency exit opening
飞行载荷系数 Flight Load Factors	襟翼收起/Flaps up +2.5g -1.0g 襟翼放下/Flaps extended +2.0g 0.0g

燃油容积 Fuel Capacity	可用 Usable	公斤/kg 5321	磅/lb 11732	公斤/Liters 6526	英加仑/Imp.Gals 1436
	不可用 Unusable	73	160	89	20
	总计 Total	5394	11892	6615	1456

滑油容积 (每台发动机) Oil Capacity (Per Engine)	可用/Usable	公斤/Liters 5.6	英加仑/Imp.Gals 1.23
	总计/Total	24.9	5.48

最大使用高度
Maximum
Operating
Altitude

25,000 英尺 (压力高度)
25,000 feet (Pressure Altitude)

外部气温限制
Outside Air
Temperature
Limits

见批准的飞行手册
See AFM as listed in Approved Publications

操纵面运动量
Control Surface
Movements

见维修手册 PSM 1-84-2
See Maintenance Manual PSM 1-84-2

要求设备
Required
Equipment

1. 适用适航要求 (见审定基础) 所规定的基础设备必须安装在飞机上
The basic equipment as prescribed in the applicable Airworthiness requirements (See Basis of Certification) must be installed in the aircraft.

1. 已批准飞行手册所列
Aircraft Flight Manual as listed in Approved Publications.

已批准出版物
(见注释 1)
Approved
Publications
(See NOTE 1)

1. 飞行手册 PSM 1-84-1A (型号: 400,401,402)
Aircraft Flight Manual PSM 1-84-1A (Model 400, 401, 402)

2. 维修要求手册 PSM 1-84-7
Maintenance Requirements Manual PSM 1-84-7

3. 合格审定飞机的定义: AEROC 8.1.AC.1
Definition of Certified Airplanes: AEROC 8.1.AC.1

3. 主最低设备清单
Master Minimum Equipment List:

寿命限制件

寿命限制件列在已批准的维修要求手册的适航性限制章节中

Life Limited
Parts

(见注释 2)

Components which are life limited are listed in the Airworthiness Limitations Section of the Maintenance Requirements Manual Listed in Approved Publications (See NOTE 2).

标牌
Placards

对于 DHC-8-400 系列飞机，德哈维兰公司资料 81150004 和 81150005 列出的所有标牌必须安装在它们适当的位置上

All placards listed in de Havilland documents 81150004 and 81150005 For the DHC-8-400 series, must be installed in their Appropriate location.

注释 1
NOTE 1

必须依照已批准的相应飞行手册使用飞机

The aircraft must be operated in accordance with the appropriate Flight Manual listed in Approved Publications.

注释 2
NOTE 2

遵从已批准的维修要求手册的适航性限制章节规定的任务和间隔以确保持续符合审定基础要求

Compliance with the tasks and intervals specified in the Airworthiness Limitations section of the Maintenance Requirements Manual listed in Approved Publications is required to ensure continuing compliance with the Basis of Certification.