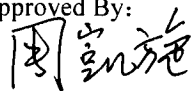


中国民用航空总局

CIVIL AVIATION ADMINISTRATION OF CHINA

编号/No.: VTC0171E
 修订/Rev.: 1
 型号/Type: PT6A-15AG
 PT6A-21 (见★see★)
 PT6A-34AG
 批准人/ Approved By: 
 日期/Date: 2007-10-30

型号认可证数据单编号: VTC0171E

Validation Type Certificate Data Sheet No. VTC0171E

本数据单是型号认可证（编号：VTC0171E）的一部分，它规定了一些条件和限制，在此条件和限制下，获得本型号认可证的产品满足下述“认可审定基础”段落给出的适航要求。

This data sheet which is a part of Validation Type Certificate (No. VTC0171E) prescribes conditions and limitations under which the product for which the Validation Type Certificate was issued meets the airworthiness requirements indicated in “Validation Basis” paragraph.

★本型号认可证数据单2006年5月19日版对PT6A-21型发动机有效。

★Revision of this VTCDs on 19, May, 2006 is valid for model PT6A-21.

型号合格证持有人: Pratt&Whitney Canada Corp.
 1000 Marie-Victorin Longueuil, Quebec
 加拿大

Type Certificate Holder: Pratt&Whitney Canada Corp.
 1000 Marie-Victorin Longueuil, Quebec
 Canada

加拿大运输部 型号合格证E-6、数据单第26版，批准日期：1963年12月12日，颁布日期：2005年2月28日

Type Certificate E-6, Data Sheet Revision 26, Approved by Transport of Canada on 12 December., 1963, Issued by Transport of Canada on 28 February, 2005

PT6A-15AG, PT6A-34AG发动机，加拿大运输部于1977年、1976年批准，CAAC于2007年10月30日认可
PT6A-15AG, PT6A-34AG Engine Approved 1977、1976 by Transport of Canada, Validated 2007.10.30 by CAAC

Page No.	1	2	3	4	5	6	7	8	9	10
Revision No.	1	1	1	1	1	1	1	1	1	1

型号合格证持有人: Pratt&Whitney Canada Corp.
1000 Marie-Victorin Longueuil, Quebec
加拿大

Type Certificate Holder: Pratt&Whitney Canada Corp.
1000 Marie-Victorin Longueuil, Quebec
Canada

型号 自由涡轮，涡轮螺旋桨发动机
Type Free turbine turbo-prop

额定值 (见注 1)	等效 轴马力 H.P. (kW)	轴马力 H.P. (kW)	发动机 推力 lbs (N)	输出转速 RPM (max)	燃气 发生器转速 RPM (max)
<u>PT6A-15AG</u>					
最大连续 功率	715 (533)	680 (507)	90 (400)	2200	38100
起飞功率 (5 分钟)	715 (533)	680 (507)	90 (400)	2200	38100
最大反推 功率	-	620 (462)	-	2100	-
<u>PT6A-34AG</u>					
最大连续 功率	783 (584)	750 (559)	82 (365)	2200	38100
起飞功率 (5 分钟)	783 (584)	750 (559)	82 (365)	2200	38100
最大反推 功率	-	750 (559)	-	2100	-

Ratings (See NOTE 1)	Equiv. Shaft H.P. (kW)	Shaft H.P. (kW)	Jet Thrust lbs (N)	Output RPM (max)	Gas Gen. RPM (max)
<u>PT6A-15AG</u>					
Maximum Continuous	715 (533)	680 (507)	90 (400)	2200	38100
Take-off (5 min)	715 (533)	680 (507)	90 (400)	2200	38100
Maximum Reverse	-	620 (462)	-	2100	-

限制	<u>PT6-34AG</u>					
	Maximum Continuous	783 (584)	750 (559)	82 (365)	2200	38100
	Take-off (5 min)	783 (584)	750 (559)	82 (365)	2200	38100
	Maximum Reverse	-	750 (559)	-	2100	-
			最大涡轮 进气温度 (T.I.T.) °C (F°)		额定功率下 最大进气 温度 (A.I.T.) °C (F°)	
	<u>PT6A-15AG</u>					
	最大连续		725 (1337)		22 (71)	
	起飞 (干)		725 (1337)		22 (71)	
	起动 (5 秒)		1090 (1994)			
	<u>PT6A-34AG</u>					
Limitations	最大连续		790 (1454)		30 (86)	
	起飞 (干)		790 (1454)		30 (86)	
	起动 (5 秒)		1090 (1994)			
			Maximum Turbine Inlet Temperature (T.I.T.) °C (F°)		Maximum Air Inlet Temperature for Rated Power (A.I.T.) °C (F°)	
	<u>PT6A-15AG</u>					
	Maximum Continuous		725 (1337)		22 (71)	
	Take-off (-dry)		725 (1337)		22 (71)	
	Starting (5 secs)		1090 (1994)			
	<u>PT6A-34AG</u>					
	Maximum Continuous		790 (1454)		30 (86)	
引气	最大外部引气(%)		5.25			
	起动期间引气 (lb/min)		1.5			
Air Bleed	Maximum External (%)		5.25			
	During start (lb/min)		1.5			

燃油压力 Fuel Pressure	见安装手册 Refer to Installation Manual.	
燃油温度		$^{\circ}\text{C}$ ($^{\circ}\text{F}$)
	燃油泵进口最高温度	57 (135)
	燃油泵进口最低温度	-54 (-65)
Fuel Temperature	Maximum fuel pump inlet Minimum fuel pump inlet	$^{\circ}\text{C}$ ($^{\circ}\text{F}$) 57 (135) -54 (-65)
燃油密度	海平面冷起动最大燃油密度 (centistokes)	12
Fuel Viscosity	Maximum cold starting S.L. (centistokes)	12
滑油压力	<u>PT6A-15AG</u> 在滑油温度为 60° -70°C (140-160°F)	<u>psig</u>
	燃气发生器转速 在 27000 rpm或以上 在27000 rpm以下	80-100 40 (min)
	<u>PT6A-34AG</u> 在滑油温度为 60° -70°C (140-160°F)	
	燃气发生器转速 在 27000 rpm或以上 在27000 rpm以下	85-105 40 (min)
Oil Pressure	<u>PT6A-15AG</u> Oil temperature 60° -70°C (140-160°F)	<u>psig</u>
	Gas generator speed at or above 27000 rpm below 27000 rpm	80-100 40 (min)
	<u>PT6A-34AG</u> Oil temperature 60° -70°C (140-160°F)	
	Gas generator speed at or above 27000 rpm below 27000 rpm	85-105 40 (min)

滑油温度	<u>所有型号</u>	<u>°C</u>	<u>(°F)</u>
	最小	-40	(-40)
	最大连续	99	(210)
	最大 (10 分钟)	104	(220)
	最大 对 PWA Type I 滑油 (对适用型号)	85	(185)
Oil Temperature	<u>All Models</u>	<u>°C</u>	<u>(°F)</u>
	Minimum	-40	(-40)
	Maximum Continuous	99	(210)
	Maximum (10 mins.)	104	(220)
	Maximum for PWA Type I oil (for applicable models)	85	(185)
输出扭矩		<u>Nm.</u>	<u>ft-lb</u>
	<u>PT6A-15AG</u>		
	最大 - 稳态	2207	1628
	瞬态	2847	2100
	<u>PT6A -34AG</u>		
	最大 - 稳态	2671	1970
	瞬态	2847	2100
Output Torque		<u>Nm.</u>	<u>ft-lb</u>
	<u>PT6A-15AG</u>		
	Maximum - steady state	2207	1628
	Transient	2847	2100
	<u>PT6A -34AG</u>		
	Maximum - steady state	2671	1970
	Transient	2847	2100
超转	螺旋桨:	<u>rpm (max)</u>	
	- 可以用于完成一次在应急情况下的飞行		
	- 可以用于所有功率		
	<u>所有型号</u>		2425
	燃气发生器:		
	- 属于温度和其它限制		
	- 最大10秒		38500

Overspeeds	Propeller:	<u>rpm (max)</u>		
	-	may be employed to complete a flight in an in-flight emergency		
	-	may be employed at all ratings		
	<u>All models</u>	2425		
	Gas Generator:			
	-	subject to temperature and other limits		
	-	10 seconds maximum		
		38500		
燃油牌号	按以下适用服务通报批准的燃油牌号使用			
SB 12144	PT6A-15AG			
SB 1344	PT6A-34AG			
Fuel Type	Refer to the applicable Service Bulletins, as follows, for the approved fuel types:			
SB 12144	PT6A-15AG			
SB 1344	PT6A-34AG			
滑油牌号	按以下适用服务通报批准的滑油牌号使用			
SB 1001	PT6A -34AG			
SB 12001	PT6A-15AG			
Oil Type	Refer to the applicable Service Bulletins, as follows, for approved oil types:			
SB 1001	PT6A -34AG			
SB 12001	PT6A-15AG			
滑油容量		Imperial	U.S.	
	<u>Litres</u>	<u>gallons</u>	<u>gallons</u>	
	<u>所有型号</u>			
	可用容量	5.68	1.25	1.5
	总容量	8.64	1.9	2.3
Oil Capacity		Imperial	U.S.	
	<u>Litres</u>	<u>gallons</u>	<u>gallons</u>	
	<u>Allmodels</u>			
	Usable	5.68	1.25	1.5
	Total	8.64	1.9	2.3

设备 燃油泵，燃油控制组件，无动力源时的点火系统，螺旋桨调速器和燃油加热器作为标准设备被列于批准的部件清单中。对于附加的信息见安装手册。对于输出传动装置规范，附件传动装置，主要尺寸，重量和重心位置见安装手册

Equipment Fuel Pump, fuel control unit, ignition system without power source, propeller governor and fuel heater are included as standard equipment as shown in the Approved Parts List. For additional information refer to Installation Manual. For output drive specification, accessory drives, principal dimensions, weight and C.G. locations, refer to Installation Manual.

认可审定基础: CCAR33部现行有效版

审定基础 CAR 13 effective 15 June, 1956 and Amendments 13-1 dated 12 August, 1957, 13-2 dated 17 May, 1958, 13-3 dated 1 October, 1959, 13-4 dated 3 May, 1962.

型号合格审定日期

PT6A-15AG Aug. 17, 1977

PT6A-34AG Dec. 3, 1976

Basis of Certification CAR 13 effective 15 June, 1956 and Amendments 13-1 dated 12 August, 1957, 13-2 dated 17 May, 1958, 13-3 dated 1 October, 1959, 13-4 dated 3 May, 1962.

Dates of application for Type Certification

PT6A-15AG Aug. 17, 1977

PT6A-34AG Dec. 3, 1976

批准的出版物 a) DOT 批准的安装手册:
PT6A-15AG, PT6A-34AG

b) DOT批准的部件列表如下:

Engine Model

PT6A-15AG

-34AG

Date of EAPL

Aug 22, 1978

March 31, 1977

c) 加拿大运输部批准的服务通报:

服务通报规定了批准的润滑油，涉及到本数据单滑油牌号部分

服务通报规定了批准的燃油和添加剂，涉及到本数据单燃油牌号部分

SB 12102	规定了PT6A-15AG转子部件的使用寿命
SB 1302	规定了PT6A-34AG转子部件的使用寿命
SB 12103	规定了PT6A-15AG的翻修间隔期（TBO）和热端部件检查（HSI）周期
SB 1303	规定了PT6A-34AG的翻修间隔期（TBO）和热端部件检查（HSI）周期

d) 维修手册:

PT6A-15AG	3030442
PT6A-34AG	3021242

e) 翻修手册:

PT6A-15AG	3030443
PT6A-34AG	3021243

Approved
Publicationsa) DOT Approved Installation Manual for:
PT6A-15AG, PT6A-34AG

b) DOT Approved Parts List as follows:

<u>Engine Model</u>	<u>Date of EAPL</u>
PT6A-15AG	Aug 22, 1978
-34AG	March 31, 1977

c) Transport Canada Approved Service Bulletins:

SBs defining approved lubricating oils, refer to the Oil Type section of this data sheet.

SBs defining approved fuels and additives refer to the Fuel Type section of this data sheet.

SB 12102	Defining Rotor Components Service Lives for the PT6A-15AG
SB 1302	Defining Rotor Components Service Lives for the PT6A-34AG
SB 12103	Defining Operating Time Between Overhaul (TBO) and Hot Section Inspection (HSI) Frequency for the PT6A-15AG
SB 1303	Defining Operating Time Between Overhaul (TBO) and Hot Section Inspection (HSI) Frequency for the PT6A-34AG

Approved
Publications (Cont'd)d) Maintenance Manual:

PT6A-15AG 3030442

PT6A-34AG 3021242

e. Overhaul Manual:

PT6A-15AG 3030443

PT6A-34AG 3021243

注 1

发动机额定值是基于静态海平面，干空气条件下的ICAO大气条件标准。安装了压气机进气滤网；无额外的附件载荷和引气。

NOTE 1

The engine ratings are based on dry sea level static ICAO Standard Atmospheric Conditions. Compressor intake screen installed; no external accessory loads and no airbleed.

NOTE 2

当进气系统按照安装手册规定对雪和冰粒进行惯性分离时，发动机满足FAA关于在结冰条件下运行的要求；当使用另外批准的酒精除冰方法时，在可视水汽条件下运行要按安装手册的规定进行限制。发动机还满足FAA关于足够的盘完整性和转子叶片包容性要求，此外，没有要求附加外部保护设备。

NOTE 2

The engine meets FAA requirements for operation in icing conditions when the intake system conforms with Installation Manual Instructions for inertial separation of snow and icing particles; when the alternate approved alcohol system is used, flight in visible moisture is restricted as specified in the Installation Manual. The engine also meets FAA requirements for adequate disc integrity and rotor blade containment and does not require external armouring.

注 3

有寿命限制的转子部件寿限在本数据单中被批准出版的服务通报中有规定

NOTE 3

The Service Life values for life-limited rotor components are defined in the applicable Service Bulletins shown in the Approved Publications section of this data sheet.

注 4

发动机PT6A-15AG、PT6A-34AG分别是PT6A-27、PT6A-34和PT6A-41的特别设计版本，适用于农用飞机。

结束

NOTE 4

The PT6A-15AG, PT6A-34AG are special purpose versions of the PT6A-27, PT6A-34 and PT6A-41 engines respectively, intended for operation in agricultural aviation.

- END -