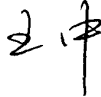


中国民用航空总局
GENERAL ADMINISTRATION OF CIVIL AVIATION OF CHINA

编号/No.: VTC 160E

修订/Rev.: 1

型号/Type: PW545B

批准人/Approved by: 

日期/Date: 2005-03-04

型号认可证数据单编号: VTC160E
Validation Type Certificate Data Sheet No. VTC160E

本数据单, 作为型号认可证编号: VTC160E 的一部分, 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. VTC160E prescribes conditions and limitations under which the product for which the Validation Type Certificate was issued meets the airworthiness requirements indicated in the paragraph “Validation Basis”.

加拿大运输部 TCCA 型号合格证 No.E-28、数据单第 9 版, 批准日期: 2004 年 9 月 1 日, 其中

PW545B: 2003 年 12 月 12 日 TCCA 批准

CAAC 型号认可证 VTC160E 颁发日期: 2005 年 3 月 4 日。

Type Certificate No.E-28, Data Sheet Issue 9, Approved by Canada TCCA on September 1, 2004

PW545B : Approved by TCCA on December 12, 2003

CAAC Validated Type Certificate Datasheet No. VTC160E, date of issue: March 4, 2005.

型号合格证持有人: 普惠加拿大公司

Type Certificate Holder: Pratt and Whitney Canada Corp.
1000 Marie-Victorin
Longueuil, Quebec
Canada J4G 1A1

加运输部审定基础

加拿大适航手册, 533 章 改版 533-5, 修正案到 NPA-2000-265, 其相当于 FAR Part 33, 包括 1 到 20 修正案。

TCCA Certification Basis

发动机 PW545B 以满足国际民航组织附件 16, 第二卷, “航空器发动机排放”, 第二版, 发布于 1993 年 6 月, 包括第四修正案。

Canadian Airworthiness Manual, Chapter 533 Change 533-5, as amended by NPA-2000-265, which is equivalent to FAR Part 33, up to and including amendment 33-20.

The PW545B has also been shown to meet the requirements of ICAO Annex 16, Volume II, “Aircraft Engine Emissions”, Second Edition, July 1993, as amended by and including Amendment 4.

CAAC 认可审定基础
CAAC Validation
Certification Basis

CAAC 接受 TCCA 的审定基础为认可审定基础

CAAC accepts TCCA certification basis as validation basis for this validation program

额定值和限制
(见注解3和5)

	推力	环境限制	发动机转速		最高涡轮间温度
	10N (磅)	°C (°F)	N1 RPM	N2 RPM	°C
起飞	1832 (4119)	25 (77)	13034 (100%)	33622 (102.8%)	740
最大连续	1500 (3372)	35 (95)	13034 (100%)	33622 (102.8%)	720
瞬态 (20秒)			13295 (102%)	34008 (104%)	780
起动 (5秒)					740
最低飞行慢车				17396 (53.2%)	

**Ratings and
Limitations**
(See NOTES 1 and 5)

	Jet Thrust daN (lb.)	Ambient Limit °C (°F)	Maximum Engine Speed N1 RPM N2 RPM		Maximum Interturbine Temperature °C
Take-off	1832 (4119)	25 (77)	13034 (100%)	33622 (102.8%)	740
Maximum Continuous	1500 (3372)	35 (95)	13034 (100%)	33622 (102.8%)	720
Transient (20 seconds)			13295 (102%)	34008 (104%)	780
Starting (5 seconds)					740
Flight Idle Minimum				17396 (53.2%)	

滑油压力

参见发动机安装手册表1

滑油温度

参见发动机安装手册表1

Oil Pressure

Refer to Installation Manual Table 1

Oil Temperature

Refer to Installation Manual Table 1

型式

双转子, 风扇前置, 喷射驱动燃气涡轮.

引气

参见发动机安装手册第二节

燃油压力

参见发动机安装手册第六节

燃油温度

参见发动机安装手册第六节

燃油型号

—三号喷气燃油 (GB 6537-94, 中国)

—其余型号见维修手册第七十二章

滑油型号

参见维修手册第七十二章

滑油量

参见发动机安装手册第八节

Type

Twin spool front fan, jet propulsion gas turbine.

Air Bleed

Refer to Installation Manual, Section 2

Fuel Pressure

Refer to Installation Manual, Section 6

Fuel Temperature

Refer to Installation Manual, Section 6.

Fuel Type

-No.3 Jet Fuel (GB6537-94,Chinese)

<u>Oil Type</u>	-The remaining refer to Maintenance Manual Chapter 72
<u>Oil Capacity</u>	Refer to Maintenance Manual Chapter 72 Refer to Installation Manual Section 8
<u>设备</u> (见注解4)	例如燃油控制组件、流量分配器、燃油泵、燃油滤、燃油流量计和发动机尾部安装的防火墙等设备都是标准设备，如被批准的零件目录所示。对于向外传动、附件驱动、主要的尺寸、重量、惯量和重心位置，参见发动机安装手册
<u>Equipment</u> (See NOTE 4)	Equipment such as the fuel control unit, EEC, flow divider, fuel pump, fuel filter, provision for fuel flowmeter, and fire shield for rear engine mount, are standard equipment as shown in the Approved Parts List. For output drive specification, accessory drives, principal dimensions, weights, inertias and C.G. locations, refer to Installation Manual.
<u>批准的手册</u>	-PW545B发动机安装手册 -PW545B发动机的生产构型在发动机组装图No. 30J2622改版B和之后的改版中定义。 -限寿的转子元件的使用寿命于PW545B的维修手册中的适航限制部分给出。
<u>Approved Publications</u>	-PW545B Installation Manual -The configuration of production PW545B engines is defined by Engine Assembly Drawing No. 30J2622 Revision B and subsequent revisions. -Service life values for life limited rotor components as defined in PW545B Maintenance Manual, Airworthiness Limitations Section.
<u>持续适航文件</u>	-PW545B的维修手册 件号 30J2242 -PW545B的大修手册 件号 30J2243
<u>Instructions for Continued Airworthiness</u>	-Maintenance Manual PW545B P/N 30J2242 -Overhaul Manual PW545B P/N 30J2243
<u>注解1</u>	此发动机额定值的确定基于国际民航组织的标准大气条件,海平面的静态干燥空气,并且没有外部附加载荷和引气。引用的额定值在试车台使用规定的燃油和滑油获得,没有使用进气道、排气道和发动机安装手册中规定的进气装置。
<u>NOTE 1</u>	The engine ratings are based on dry sea level static ICAO standard atmospheric conditions, no external accessory loads and no airbleed. The quoted ratings are obtainable on a test stand with the specified fuel and oil, without intake ducting and using the exhaust duct and intake specified in the Installation Manual.
<u>注解2</u>	保留
<u>注解3</u>	保留
<u>NOTE 2</u>	Reserved
<u>NOTE 3</u>	Reserved
<u>注解4</u>	此发动机的定义不包括反推。反推的安装包括在发动机安装手册中。
<u>NOTE 4</u>	The engine definition does not include a thrust reverser. Considerations for the installation of a thrust reverser are contained in the Installation Manual.
<u>注解5</u>	五分钟起飞功率可以由于单发停车延长至10分钟而不对发动机的适航性产生不利影响。此种使用应当是不频繁的(因为发动机在起飞过程中失效是不常见的)并且没有加入限制或者特殊的检查。
<u>NOTE 5</u>	Take-off ratings that are nominally limited to 5 minutes duration may be used for up to 10

minutes for OEI operations without adverse effects upon engine airworthiness. Such operations are anticipated on an infrequent basis (as engine failure at take-off events are uncommon) and no limits or special inspections have been imposed.

结束

-END-