

Service Centre St-Hubert
T.C. AMO Approval No. 20-00

Pratt & Whitney Canada Corp.
SERVICE CENTRE ST-HUBERT
7007 de la Savane
St-Hubert, Quebec,
Canada J3Y 3X7

Status of Airworthiness Directives for This Shop Visit

Sales Order: 181694
Description: GAS GENERATOR MODULE
Model: PT6A-114A
Serial Number: PC0993

Customer: Pratt & Whitney Canada do Brasil Lt
Print Date: 20-JUN-2014
Page: 001 of 001

Document No.	Revision No.	Status
AWD CF-2013-21 001	01	Embodied
	DESCRIPTION	
	COMPR. TURB. BLADE FAILURES (PART 1)	
AWD CF-2013-21 002	01	Embodied
	COMPR. TURB. BLADE FAILURES (PART 2)	
AWD CF-2013-21 003	01	Embodied
	COMPR. TURB. BLADE FAILURES (PART 3)	
AWD CF-2013-21 004	01	Embodied
	COMPR. TURB. BLADE FAILURES (PART 3)	
AWD CF-99-23 000	00	Embodied
	BLEED OFF VALVE COVER & DIAPHRAGM ASSY.	

I hereby certify that the above airworthiness directives with status "EMBODIED" have been incorporated or found embodied in this engine as per the manufacturer's recommendations.

Authorized Inspector:

Gilles Goudreau

Gilles Goudreau
PWC AMO 20-00



Export Control Classification: This document contains no technical data.

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List of Service Bulletins and Special Instruction incorporated this visit.

Sales Order: 181694 Customer: Pratt & Whitney Canada do Brasil Lt
Module Name: GAS GENERATOR MODULE Print Date: 20-JUN-2014
Model: PT6A-114A Page: 001 of 001
Serial Number: PC0993

Document No.	Revision #	Class	Description
SB 1001 000	28	3	APPROVED LISTING OF (SYNTHETIC)
SB 1002 000	29	3	ROTOR COMPONENTS - SERVICE LIFE
SB 1477 000	00	6	C.B.V. ASSY. PREFORMED PACKING -
SB 1627 000	00	6	COMPRESSOR TURBINE SHROUD RETAINING RING
SB 1638 001	02	6	SEAL, PLAIN - REPL OF. (SINGLE ENGINE)
SB 1658 000	03	6	BOLTS & NUTS OF THE FCU CONNECTOR ROD -
SB 1663 000	02	7	AIR INLET SCREEN - REPLACEMENT OF.
SB 1664 000	00	7	CT ROTOR AIR-SEAL - REPLACEMENT OF.
SB 1666 000	01	5	BOLTS AND NUTS OF THE FCU CONNECTOR ROD
SB 1669 003	09	3	COMPRESSOR TURBINE BLADE - INSP/REPL OF
SB 1692 000	01	5	OIL SCAVENGE HOSE - INSPECTION OF
SB 1693 000	00	6	NO. 2 BRG OIL PACKING - REPL OF
SB 1703 000	09	3	OPERATING TIME BETWEEN O/HAUL
SB 1727 000	00	7	CT BLADES - REPL OF
SB 1741 000	00	3	SHIPPING CAPS FOR SHIPPING CONTAINER - R

I hereby certify that the above modifications and directives have been incorporated in this engine as per the manufacturer's recommendations.

Authorized Inspector: Gilles Goudreau

Gilles Goudreau
PWC AMO 20-00



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List of Service Bulletins and Special Instruction incorporated this visit.

Sales Order: 181694

Customer: Pratt & Whitney Canada do Brasil Lt

Module Name: POWER SECTION MODULE

Print Date: 20-JUN-2014

Model: PT6A-114A

Page: 001 of 001

Serial Number: PC0993

Document No.	Revision #	Class	Description
SB 1002 000	29	3	ROTOR COMPONENTS - SERVICE LIFE
SB 1661 000	00	6	PROPELLER GOVERNOR - REPLACEMENT OF
SB 1703 000	09	3	OPERATING TIME BETWEEN O/HAUL

I hereby certify that the above modifications and directives have been incorporated in this engine as per the manufacturer's recommendations.

Authorized Inspector:

Gilles Goudreau

Gilles Goudreau
PWC AMO 20-00



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PT6A-114A S/N:PCE-PC0993

OVERHAUL TEST RECORD

2014 JUN 19 TEST CELL : 0502

TESTED AS PER OH MANUAL REV (40) APPLICABLE SB :

FINAL VANE FLOW AREAS

FIRST STAGE :

6.18

SECOND STAGE :

6S6 16.03

PERFORMANCE DATA

TAKE-OFF

TRIM-EST

SPEC ACTUAL

SPEC ACTUAL

PROP SPEED

1900. 1900.

1900. 1900.

S.L.S. STD.DAY POWER

675. 675.

725. 725.

TRIMMED INTERTURBINE TEMP DEG R

1740.

1775. 1765.

T5D (DERIVED) DEG R

1796.

1832.

GAS GEN. SPEED RPM

36250 35450.

35950.

SFC @ 18400 BTU/LB LB/SHP.HR

0.647 0.646

0.632

COMPRESSOR DELIVERY @ 36000 RPM

6.48 6.51

FUEL TYPE : CPW 204

TEST LHV : 18588. BTU/LB

S.G. : 0.797 @ 80. DEG F

OIL TYPE : PWA 521

TYPE II

OIL CONSUMPTION : 0.00

LB/HR

T.O. OIL PRESSURE : 98.8

PSI

OIL TEMPERATURE : 150

DEG F

I.T.T. TRIM DELTA T (UNTRIMMED-TRIMMED) : 50.8

DEG F

I.T.T. TRIM DELTA T (UNTRIMMED-TRIMMED) : 28.2

DEG C

I.T.T. TRIM CLASS : 55

TRIM RESISTANCE : 24.0

OHMS

COLD HARNESS RESISTANCE : 0.00

OHMS

BOV ORIFICE CLASS NUMBER : N/A

HANDLING AND CONTROL SETTINGS

TRIMMED MAX NG : N/A

RPM

UNTRIMMED MAX NG : 38100

RPM

DATA PLATE SPEED : N/A

RPM

IDLE SPEED : 20124

RPM

ACCEL. TIME F.I. TO MAX @ T1 : 2.93 SECS @ 81.3 DEGF

SG DOME FINAL SETTING : 0

CLICK

ENGINE DRY WEIGHT : N/A

LBS.

THE UNDERSIGNED CERTIFIES THAT THIS IS AN ACCURATE RECORD OF THE EVENTS DURING THE TEST OF SECTION PCE-PC0993....

DATE 19 JUN 2014 TEST CELL OPERATOR :

SC WT68

INSPECTOR OR CERTIFIED OPERATOR :

SC WT93

TEST ACCEPTED

20 JUN 2014

Eric Chabot PWC AMO 20-00

AT 25

Export Classification: 9E991

Date: 20 JUN 2014 Badge # 33164

**Liste des pièces remplacées**
List of Replaced Parts**Dossier qualité - Quality Record**

P&WC JR3-6934-E (2012-10)

Date 2014/06/20

N° de série Serial No.	Module	Modèle Model	Bulletin de vente Sales Order No.	Client Customer
PC0993	GG	PT6A-114A	181694	Pratt & Whitney Canada do Brasil Lt

N° de la pièce Part No.	Designation de la pièce Part Description	Qté Qty	Non Fact. Not Chrg.	Sub. S. Flag
EXCHANGE				
3029051CL0621	VANE RING-TURBINE	1		
NEW				
3003533	NOZZLE - OIL, COMPRESSOR BEARING	1		
3006505	VALVE-DRAIN,GAS GEN CASE	1	X	
3007355	SPACER-FLAT,1.1845IDX1.450ODX.145THK	1		
3011155	TUBE TRANSFER FUEL MANIFOLD	3		
3011233	SPRING-EXPANDER,BALL LOCK	1		
3012338	SPRING-HLCL,CPRSN,,300X.022X8.5 CLS	1		
3018503CL20	SHROUD-SEGMENT-COMPRESSOR TURBINE	9		
3019371	TIE ROD-CPRSR RTR,,3125-24 UNJF	6		
3029268	FILTER ELEMENT (IC)	1		
3031417CL55	WIRING HARNESS-T5 TRIM	1		
3032096	IGNITER (IC)	2		
3036777	SEAL-FACE OPTION (IC)	1		
3059046-01	SEAL-PL,,9375 SFT DIA X1.4375X.312	1		
3070976-01	OIL FILTER ELEMENT OPTION (IC)	1		
3072234-01	SCREEN-AIR INLET,ASSY OF	1		
3072594CL4	SEAL-AIR,COMPRESSOR TURBINE,ROTOR	1		
3072791-02	BLADE-TURBINE	58		
3109263-02	DUCT-COMB CHMBR EXIT,LARGE,ASYO	1		
3110741-02	RING-RETAINING,COMPR.TURB.SHROUD	1		
3120869-01	SHEATH-FUEL NOZZLE	1		
AK34-10	Kit Assy	2		
AK34-100	Kit Assy	1		
AK34-15	Kit Assy	1		
AK34-20	Kit Assy	2		
AK34-25	Kit Assy	2		
AK34-30	Kit Assy	1		
AK34-35	Kit Assy	1		
AK34-40	Kit Assy	2		
AK34-41	Kit Assy	1		
AK34-45	Kit Assy	1		



**Liste des pièces remplacées
List of Replaced Parts**

Dossier qualité - Quality Record

P&WC JR3-6934-E (2012-10)

Date 2014/06/20

N° de série Serial No.	Module	Modèle Model	Bulletin de vente Sales Order No.	Client Customer
PC0993	GG	PT6A-114A	181694	Pratt & Whitney Canada do Brasil Lt

N° de la pièce Part No.	Designation de la pièce Part Description	Qté Qty	Non Fact. Not Chrg.	Sub. S. Flag
AK34-5	Kit Assy	1		
AK34-50	Kit Assy	1		
AKBAL27-1	KIT, CT DISC ASSY	1		
AKBAL27-2	KIT, COMP ROTOR ASSY	1		
BK-PT6A6-135/S-KIT	KIT ASSY, CONTAINER (PT6A-6/135 SERIES)	1		

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**Liste des pièces remplacées
List of Replaced Parts**

Dossier qualité - Quality Record

P&WC JR3-6934-E (2012-10)

N° de série Serial No.	Module	Modèle Model	Bulletin de vente Sales Order No.	Client Customer
PC0993	PS	PT6A-114A	181694	Pratt & Whitney Canada do Brasil Lt

N° de la pièce Part No.	Designation de la pièce Part Description	Qté Qty	Non Fact. Not Chrg.	Sub. S. Flag
NEW				
3002444	SPACER-ADJUSTING 2.960X3.310X.150	1		
3004183	TUBE-TRANSFER .311X.805	1	X	
3022984	THERMOCOUPLE OPTION (IC)	5		
3022984	THERMOCOUPLE OPTION (IC)	3		
3032995	STRAINER (IC)	4		
3040110	WIRING HARNESS (IC)	1		
3045951-02	PLUG CHIP DETECTOR MAGNET	1		
3109949-01	WASHER-KEY	1		
AK34-55	Kit Assy	1		
AK34-60	Kit Assy	1		
AK34-65	Kit Assy	1		
AK34SPK	Kit Assy	1		
AKBAL27-3	KIT, PT DISC ASSY	1		

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End-of-document

Export Control Classification: This document contains no technical data.

1. Country-Pays CANADA	2. Transport Canada Canada	Transport Canada Canada	Form Formulaire 24-0078	3. Certificate Ref. No. - No de référence du bon SEE BLOCK 5
4. Organization-Organisme Pratt & Whitney Canada Une société de United Technologies/A United Technologies Company AUTHORIZED RELEASE CERTIFICATE - BON DE SORTIE AUTORISE				
5. Work Order/Contract/Invoice-Bon de travail/contrat/facture P. O. # 4000155382				
6. Item 1	7. Description Free Turbine Turbo-Prop PT6A-114A	8. Part No. - No de pièce 3044000	9. Eligibility-Admissibilité VARIOUS	10. Qty.-Qté 1
11. Serial/Batch No.-No de série/lot PCE-PC0993		12. Status/Work - État/travail MANUFACTURED		
13. Remarks - Remarques CANADIAN TYPE CERTIFICATE E-15, FAA TYPE CERTIFICATE E4EA THIS ENGINE CONFORMS TO ITS UNITED STATES TYPE DESIGN (TYPE CERTIFICATE NUMBER E4EA) AND IS IN CONDITION FOR SAFE OPERATION. THIS ENGINE HAS BEEN SUBJECTED BY THE MANUFACTURER TO A FINAL OPERATION CHECK AND IS IN A PROPER STATE OF AIRWORTHINESS. 14. New Parts - Pièces neuves AWM M de N Chapter 561 Chapitre 561 Certified that the part(s) identified above except as otherwise specified in block 13 has (have) been manufactured/inspected in accordance with the applicable design data and with the airworthiness regulations of the stated country. Il est certifié que la (les) pièce(s) identifiée(s) ci-haut, sauf si autrement spécifié à la case 13, a (ont) été construit(e)s/inspecté(e)s conformément aux données de conception pertinentes et aux règlements de navigabilité au pays indiqué. 15. Signature <i>B. Hungerford</i> 16. Approval Ref. No. - Réf. d'autorisation T.C. 4-58 NO. 031 4-58 17. Name (typed or printed) - Nom (dactylographié ou imprimé) B. HUNGERFORD 18. Date 2002 JUN 14 19. Used Parts - Pièces usagées CAR RAC 571.10 - Maintenance Release 571.10 - Certification après maintenance Certified that the maintenance specified above has been performed in accordance with the applicable standards of airworthiness. Except as otherwise specified in block 13, the part(s) is (are) released for service. Il est certifié que la maintenance spécifiée ci-haut, a été effectuée conformément aux normes de navigabilité applicables. Sauf si autrement spécifié, à la case 13, la remise en service de la (des) pièce(s) est autorisée. 20. Signature 21. Approval Ref. No. - Réf. d'autorisation 22. Name (typed or printed) - Nom (dactylographié ou imprimé) 23. Date				

Installer must cross-check eligibility with applicable technical data - Le monteur doit vérifier l'admissibilité avec les données techniques pertinentes

USER/INSTALLER RESPONSIBILITIES

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/ component/assembly. Where the user/installer works in accordance with the national regulations of an Airworthiness Authority different than the Airworthiness Authority of the country specified in block 1 it is essential that the user/installer ensures that his/her Airworthiness Authority accepts parts/components/assemblies from the Airworthiness Authority of the country specified in block 1. Statements 14 and 19 do not constitute installation certification. In all cases the aircraft maintenance record must contain an installation certification issued in accordance with the national regulation by the user/installer before the aircraft be flown.

RESPONSABILITES DE L'USAGER/MONTEUR

Il est important de bien comprendre que de par son existence ce document ne constitue pas forcément l'autorisation d'installer la pièce/composant/ensemble. Lorsque l'usager/monteur (euse) travaille conformément aux règlements nationaux d'une autorité de navigabilité, autre que l'autorité de navigabilité inscrite à la case 1, il est essentiel que l'usager/monteur (euse) s'assure que son autorité de navigabilité accepte les pièces/composants/ensembles de l'autorité de navigabilité inscrite à la case 1. Les déclarations apparaissant aux cases 14 et 19 ne constituent pas une certification de montage. En tout temps le dossier de maintenance de l'aéronef doit contenir une certification de montage émise selon les règlements nationaux, par l'usager/monteur (euse), avant que l'aéronef puisse décoller.

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