1. Approving Civil Aviation Authority/Country: **FAA / United States**	2. **AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3. Form Tracking Number: FA022320
4. Organization Name and Address: Pratt & Whitney Canada, Une société de United Technologies / A United Technologies Company		5. Work Order / Contract / Invoice Number: 6106432064 / 6106432065 / 4502277672

6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:
1	ENGINE ASSEMBLY, COMPLETE, PW125B	3035600	1		REPAIRED

12. Remarks:

Consists of Turbomachinery Module and Reduction Gearbox Module

Turbomachiney Module Hot Section Inspection carried out I.A.W. Maintenance Manual 3034932 Revision 49, dated Aug 03/2015, modified and tested I.A.W. Overhaul Manual 3034933 Revision 32, dated Aug 25/2014 and manufacturer specifications. Fuel and oil system preservation carried out on 21 Aug 2015.

Reduction Gearbox Module The work performed is limited to external visual inspection carried out I.A.W. Maintenance Manual 3034932 Revision 49, dated Aug 03/2015, modified and tested I.A.W. Overhaul Manual 3034933 Revision 32, dated Aug 25/2014 and manufacturer specifications.
This certificate is issued in conjunction with EASA Form 1 EA018984, TCCA Form One TC011126
Pertinent details of the work performed are retained on file under Service Order: 6106432064 / 6106432065
All applicable FAA Airworthiness Directives are complied with.

TSN : 5699.0 CSN : 9033 TSO : N/A CSO : N/A

13a. Certifies that the items identified above were manufactured in conformity to:

☐ Approved design data and are in condition for safe operation.

☐ Non-approved design data specified in Block 12.

14a. ☒ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 12

Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulation, part 43 and in respect to that work, the items are approved for return to service.

13b. Authorised Signature	13c. Approval/Authorisation No.	14b. Authorized Signature:	14c. Approval/Certificate No.: **PQOY514Y**
13d. Name (Typed or Printed)	13e. Date (dd/mmm/yyyy)	14d. Name (Typed or Printed): Nor Azril Bin Mohd Zin (130 PWC SEA)	14e. Date (dd/mmm/yyyy): 27/Aug/2015

USER / INSTALLER RESPONSIBILITIES

It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article. Where the user/installer performs work 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 aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1. Statements in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1. Approving Competent Authority/ Country:	2.	3. Form Tracking Number
EASA	**AUTHORISED RELEASE CERTIFICATE** EASA FORM 1	EA018984

4. Organisation Name and Address:

Pratt & Whitney Canada
Une société de United Technologies /A United Technologies Company

5. Work Order / Contract / Invoice
6106432064 / 6106432065 / 4502277672

6. Item	7. Description	8. Part No.	9. Qty.	10. Serial No.	11. Status/Work
1	ENGINE ASSEMBLY, COMPLETE, PW125B	3035600	1		REPAIRED

12. Remarks

Consists of Turbomachinery Module S/N: and Reduction Gearbox Module

Turbomachiney Module Hot Section Inspection carried out I.A.W. Maintenance Manual 3034932 Revision 49, dated Aug 03/2015, modified and tested I.A.W. Overhaul Manual 3034933 Revision 32, dated Aug 25/2014 and manufacturer specifications. Fuel and oil system preservation carried out on 21 Aug 2015.

Reduction Gearbox Module The work performed is limited to external visual inspection carried out I.A.W. Maintenance Manual 3034932 Revision 49, dated Aug 03/2015, modified and tested I.A.W. Overhaul Manual 3034933 Revision 32, dated Aug 25/2014 and manufacturer specifications.

This certificate is issued in conjunction with FAA Form 8130-3 FA022320, TCCA Form One TC011126

Pertinent details of the work performed are retained on file under Service Order: 6106432064 / 6106432065

All applicable EASA Airworthiness Directives are complied with.

TSN : 5699.0 CSN : 9033 TSO : N/A CSO : N/A

13a. Certifies that the items identified above were manufactured in conformity to:	14a [X] Part-145.A.50 Release to Service [ ] Other regulation specified in block 12
[ ] Approved design data and are in condition for safe operation. [ ] Non-approved design data specified in Block 12.	Certifies that unless otherwise specified in block 12, the work identified in block 11 and described in block 12, was accomplished in accordance with Part 145 and in respect to that work the items are considered ready for release to service.
13b. Authorised Signature / 13c. Approval/Authorisation No.	14b. Authorised Signature / 14c. Certificate /Approval Ref. No. **EASA.145.0109**
13d. Name / 13e. Date (dd mmm yyyy)	14d. Name: Nor Azril Bin Mohd Zin (130 PWC SEA) / 14e. Date (dd mmm yyyy): 27/Aug/2015

USER / INSTALLER RESPONSIBILITIES

This certificate does not automatically constitute authority to install the item(s).

Where the user/installer performs work in accordance with regulations of an airworthiness authority different than the airworthiness authority specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts items from the airworthiness authority specified in block 1.

Statements in blocks 13a and 14a do not constitute installation certification. In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer

1. Approving Civil Aviation Authority/Country	2.	3. Form Tracking No.
Transport Canada	**AUTHORIZED RELEASE CERTIFICATE FORM ONE**	TC011126

4. Organization Name and Address	5. Service Order / Contract / Invoice
Pratt & Whitney Canada Une société de United Technologies / A United Technologies Company	6106432064 / 6106432065 / 4502277672

6. Item	7. Description	8. Part No.	9. Qty.	10. Serial/Batch No.	11. Status / Work
1	ENGINE ASSEMBLY, COMPLETE, PW125B	3035600	1		REPAIRED

12. Remarks

Consists of Turbomachinery Module and Reduction Gearbox Module

Turbomachiney Module Hot Section Inspection carried out I.A.W. Maintenance Manual 3034932 Revision 49, dated Aug 03/2015, modified and tested I.A.W. Overhaul Manual 3034933 Revision 32, dated Aug 25/2014 and manufacturer specifications. Fuel and oil system preservation carried out on 21 Aug 2015.

Reduction Gearbox Module The work performed is limited to external visual inspection carried out I.A.W. Maintenance Manual 3034932 Revision 49, dated Aug 03/2015, modified and tested I.A.W. Overhaul Manual 3034933 Revision 32, dated Aug 25/2014 and manufacturer specifications.
This certificate is issued in conjunction with FAA Form 8130-3 FA022320, EASA Form 1 EA018984
Pertinent details of the work performed are retained on file under Service Order: 6106432064 / 6106432065
All applicable Transport Canada Airworthiness Directives are complied with.

TSN : 5699.0 CSN : 9033 TSO : N/A CSO : N/A

13a. Certifies that the items identified above were manufactured in conformity to:		14a. [X] Car 571.10 Maintenance release. [ ] Other regulations specified in block 12. Certifies that unless otherwise specified in block 12, the work identified in the block 11 and described in block 12, has been performed in compliance with the Canadian Aviation Regulations.	
[ ] Approved design data and are in condition for safe operation. [ ] Non approved design data specified in block 12.			
13b. Signature: N/A	13c. Approved Organization Number: N/A	14b. Signature: 130 PWC SEA	14c. Approved Organization Number: **AMO20-00**
13d. Name: N/A	13e. Date (dd/mmm/yyyy): N/A	14d. Name: Nor Azril Bin Mohd Zin	14e. Date (dd/mmm/yyyy): 27/Aug/2015

Installer Responsibilities

1. This certificate does not constitute authority to install.
2. Installers working in accordance with the national regulations of a country other than that specified in block 1 must ensure that their regulations recognize certifications from the country specified.
3. Statements in blocks 13a or 14a do not constitute installation certification. In all cases, the technical record for the aircraft must contain an installation certification issued in accordance with the applicable national regulations before the aircraft may be flown.

Pratt & Whitney Canada
A United Technologies Company

PW100 LIFE LIMITED PARTS LOG

Work Order	Model	Module Serial No.	Customer
6106432064	PW125B		P&WC Leasing

Time Since New	Cycle Since New	Time Since Overhaul	Cycle Since Overhaul	Work Category
5699.0	9033	N/A	N/A	Hot Section Inspection

Manual & Rev. Ref.	Date
Maintenance Manual P/N: 3034932 Revision 48	29/03/2015

Description	Part No	Serial No	Total Time	Total Cycles	Remaining Cycles	Max. Cycles	Remarks
IMPELLER, LP	3040688	A0001D2E	5699.0	9033	5967	15000	Reinstalled
IMPELLER, HP	3043294	A000165T	5699.0	7498	7502	15000	Not dismantle
COVER,HP TURBINE,FRONT	3039640	A0002040	5699.0	9033	5967	15000	Reinstalled
DISK, HP	3041511	A000220L	5699.0	9033	5967	15000	Reinstalled
COVER,HP TURBINE,REAR	3039639	A00022DW	5699.0	9033	5967	15000	Reinstalled
SEAL,AIR INTERSTAGE	3039172	55B347	5699.0	9033	5967	15000	Reinstalled
DISK, LP	3039512	A000247N	5699.0	9033	5967	15000	Reinstalled
DISK,PT,1ST STAGE	3038513	A0001XYR	5699.0	9033	20967	30000	Reinstalled
DISK,PT,2ND STAGE	3033914	A0002413	5699.0	9033	20967	30000	Reinstalled
HPT Blade	Refer to LLP Log						

NB: The remaining cycles must be review at each subsequent revision of the Maintenance Manual / Service Bulletin on Life Limited Parts.

Life limited parts rotating component (s) (Low Cycle Fatigue (LCF)) accrued life calculation is based on data provided by operator.

Impeller, HP information obtained from logbook.

Authorised Inspector Stamp	Signature	Date
136 PWC SEA		27 AUG 2015

Form M07B5 R1 (Oct 10)

ENGINE BUILD 6 DATE 21-AUG-2015 14:17:27.61

DATA PLATE INFORMATION SHEET

PW100 ENGINE TURBOMACHINERY MODULE

ENGINE MODEL	PW125B
ENGINE S/N	
MODULE S/N	
FUEL / OIL	CPW204 PWA521-2
TAKE OFF DRY	2500 SHP
DOT TYPE APPROVAL	E-19
FAA TYPE CERTIFICATE	E20NE
MANUFACTURE DATE	OCT 1998
EMISSIONS	COMPLY

ENGINE REFERENCE DATA AT 59 F

SERIAL NO.

ENGINE BUILD SPEC. 647

AT 2500 SHP/CORR T6 TRIM 45.20 OHMS

32500 NH/CORR 27650 NL/CORR

ROTOR DISC BALANCING TRIM WEIGHTS

H FE55N FE76N N/A
H RG16N RG47N N/A

L FE08N FE22N N/A
L RE08N RE22N N/A

REDUCTION GEARBOX MODULE

ENGINE MODEL PW125B
MODULE SERIAL NO.
GEARBOX BUILD SPEC: 647

REFERENCE DATA PLATE

EEC TRIM Q2B 6260

Q2G 8160

AFU TRIM BGCL3734

CERTIFIED TEST OPERATOR: _____

PRATT & WHITNEY CANADA

PW125B S/N: FINAL ACCEPTANCE TEST RECORD

21 AUG 2015 TEST CELL : SGP0

FINAL VANE FLOW CLASSES, FIRST STAGE : 7.68
SECOND STAGE : 14.97
THIRD STAGE : 34.94

PERFORMANCE DATA		R.L.L.	TAKE-OFF SPEC	TAKE-OFF ACTUAL	MAX-CRUISE SPEC	MAX-CRUISE ACTUAL
PROP SPEED	RPM		1200.	1200.	1200.	1200
S.L.S. STD.DAY POWER	SHP		2500.	2500.	2030.	2030
TRIMMED INTERTURBINE TEMP	DEG R	1930.		1786.		1699.
CALCULATED T6	DEG R			1887.		1783.
HIGH ROTOR SPEED	RPM	34200-		32500	-	31850
LOW ROTOR SPEED	RPM	28900-		27650	-	26700
FUEL FLOW @ 18400 BTU/LB	LB/HR			~~1227~~ 1242. (230 CSC) 1236.		1058

FUEL TYPE : CPW 204
TEST L.H.V.: 18572. BTU/LB.
S.G. : .781 @ 87.DEG F

OIL TYPE : PWA 521 TYPE II
CONSUMPTION : 0.00 LB/HR.
T.O. DELTA OIL PRESSURE : 61. PSI
OIL TEMPERATURE : 183. DEG F
I.T.T. TRIM DELTA T (UNTRIMMED-TRIMMED): 0 DEG F 0 DEG C
TRIM RESISTANCE : 45.20 OHMS
COLD HARNESS RESISTANCE : 2.50 OHMS

AFU TRIM BGCL : 3734

EEC TRIM GAIN (R4) Q2G : 8160.
EEC TRIM BIAS (R3) Q2B : 6260.

ENGINE DRY WEIGHT : 1060.00 LBS

THE UNDERSIGNED CERTIFIES THAT THIS RECORD ACCURATELY SETS FORTH HEREIN THE EVENTS DURING THE TEST MADE ON THE ENGINE IDENTIFIED.

TEST CELL OPERATOR: STAMP: (230 CSC) SIGNATURE: _____ DATE: 21 AUG 2015

WITNESS INSPECTION: STAMP: (182 CSC) SIGNATURE: _____ DATE: 21 AUG 2015