

1. Approving Civil Aviation Authority/ Country:

FAA/UNITED STATES

2.

# AUTHORIZED RELEASE CERTIFICATE

FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

3. Form Tracking Number:

1752/1

4. Organization Name and Address:



# StandardAero

StandardAero  
600 E. Dallas Road, Suite 400  
Grapevine, Texas 76051  
FAA Certified Repair Station # U8TR793Y

5. Work Order / Contract / Invoice Number:

43-01715

6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:
1	ENGINE ASSEMBLY, COMPLETE	3120055-01	1	PCE-RM0715	REPAIRED

12. Remarks:

Repaired in accordance with the Pratt & Whitney Canada PT6A-42A Maintenance Manual 3021442, Revision 67.0, Dated August 21, 2023 and Overhaul Manual 3021443, Revision 55.0, Dated June 26, 2023.  
TSN: 719.4 CSN: 287 TSO: N/A CSO: N/A

Note: Installer must depressure engine, perform documented satisfactory engine performance run, and leak check before returning engine back to service.

Pertinent details of work performed are on file at this repair station under work order 43-01715.

<p>13a. Certifies the items identified above were manufactured in conformity to:</p> <p><input type="checkbox"/> Approved design data and are in a condition for safe operation</p> <p><input type="checkbox"/> Non-approved design data specified in Block 12.</p>		<p>14a. <input checked="" type="checkbox"/> 14CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in Block 12</p> <p>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 Regulations, part 43 and in respect to that work, the items are approved for return to service.</p>	
13b. Authorized Signature:	13c. Approval/ Authorization No.:	14b. Authorized Signature:	14c. Approval/ Certificate No:
<del>13d. Name (Typed or Printed):</del>	<del>13e. Date (dd/mm/yyyy):</del>	<del>14d. Name (Typed or Printed):</del>	14e. Date (dd/mm/yyyy):
		Nathaniel Sedore	21/DEC/2023

### 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.



StandardAero

Detailed Inspection Record (D.I.R.)



Form # USA003R3




Customer: DC Aviation O/T#: 175211 W/O#: 43-01715 Work Scope: Over Temp  
Date: 9/26/23 Engine Model: PT6A-42A Eng S/N: PCE-RM0715 Repair Station # U8TR793Y

Condition denotes "R" Repairable "S" Serviceable "U" Rejected "N/D" Not Disassembled  
Components Removed / Inspected  
"N/A" Not Applicable "N/R" Not Received  
Condition denotes "I" Inspected "OH" Overhauled "N" Factory New  
Components Installed

Description	Part Number	S/N	Qty.	NDI	Reqd.	Inspector	NDI	Cond.	Inspector	Reason or Remarks	Part Number	S/N	Qty.	Condition	Inspector	RPC#
PT VANE	3076352CL05	HLAB016	1	N/A		N/A		R	CAC	Cracks	3076352CL05	HLAB016	1	OH	LR	719954
NUT PLAIN ROUND	3029885	NSN	1	N/A		N/A		U	CAC	100%	3029885	NSN	1	N	LR	
FILTER, OIL	3059258-01	NSN	1	N/A		N/A		U	CAC	DIRTY	3059258-01	NSN	1	N	LR	
SEAL RING-METAL	3075036-01	NSN	1	N/A		N/A		U	CAC	100%	3075036-01	NSN	1	N	LR	
SEAL RING-METAL	3121626-01	NSN	1	N/A		N/A		U	CAC	100%	3121626-01	NSN	1	N	LR	
RING-RETAINING,VANE RIN	3120116-01	NSN	1	N/A		N/A		U	CAC	100%	3120116-01	NSN	1	N	LR	
FLOW DIVIDER	26035-1	T1662	1	N/A		N/A		R	CAC	Bench Test	26035-1	T1662	1	I	LR	719958
SEGMENTS	3071525CL07	NSN	9	N/A		N/A		U	CAC	Tip Clearance	3071525CL05	NSN	9	N	KD	
RING-SEALING	3014660	NSN	2	N/A		N/A		U	CAC	Fretted	3014660	NSN	2	N	KD	
REAR RGB HOUSING	3112923-01	158D65	1	N/A		N/A		U	CAC	CORRODED	3112923-01	NSN	1	N	LR	
TUBE ASSY, FUEL	3033981	NSN	1	N/A		N/A		N/R	CAC	NOT RECEIVED	3033981	NSN	1	N	LR	
FUEL FILTER	3059779-01	NSN	1	N/A		N/A		U	NS	TEST CELL	3059779-01	NSN	1	N	GSP	
CT DISK	3049291-01	CRAZAESI241	1	Y		DFW		R	CAC	HARDNESS CHECK	3049291-01	CRAZAESI241	1	I	KD	719944
DISK, 1ST STG PT	3029312	A003WF3H	1	Y		DFW		R	CAC	HARDNESS CHECK	3029312	A003WF3H	1	I	LR	719945
BLADES, 2ND STG PT	3044263-01	NSN	4	Y		GF		U	CAC	CUT UP ANALYSIS	3044263-01	NSN	4	N	LR	719942
DISK, 2ND STG PT	3029313	YUAB001G070	1	N/A		N/A		R	CAC	HARDNESS CHECK	3029313	YUAB001G070	1	I	LR	719946
BLADES, 1ST STG PT	3123422-01	NSN	4	N/A		N/A		U	CAC	CUT UP ANALYSIS	3123422-01	NSN	4	N	LR	719943
CT BLADES	3123131-02	NSN	4	N/A		N/A		U	CAC	CUT UP ANALYSIS	3123131-02	NSN	4	N	KD	719941
CT BLADES	3123131-02	NSN	54	N/A		N/A		U	NS	OVERTEMP	3123131-02	NSN	54	N	KD	
T5 Trim Stick	3053995CL16	NRA01798	1	N/A		N/A		S	NS	TEST CELL	3053995CL11	NRA01815	1	N	GSP	
BLADES, 1ST STG PT	3123422-01	NSN	43	Y		GF		S	CAC	NDI	3123422-01	NSN	43	I	GSP	
BLADE, 2ND STG PT	3044263-01	NSN	39	Y		GF		S	CAC	NDI	3044263-01	NSN	39	I	GSP	
CT SHROUD HOUSING	3100122-04	164/1	1	Y		GF		S	CAC	NDI	3100122-04	NSN	1	I	GSP	
PT STATOR HOUSING	3121638-01	SGA0015015	1	Y		GF		S	CAC	NDI	3121638-01	SGA0015015	1	I	GSP	

Verified By: *[Signature]*

Date: 10-26-23

 <b>StandardAero</b>		<b>StandardAero</b> <b>Detailed Work Instruction</b> FAA Certified Repair Station #: U8TR793Y; EASA # 145.5299 - Grapevine, TX		Date: September 26, 2023	
				Order/Task: 1752/1	
Customer: DC Aviation		Customer Number: 82068	Customer P/O Number : 23-867		Work Order No: 43-01715
Component Part Number: 3120055-01	Component Serial Number: PCE-RM0715	Description: Engine Assembly, Complete			Qty: 1
Manufacturer: Pratt & Whitney Canada	Engine Type: PT6A-42A	Reason for removal: Over temp			
Time Since New (TSN): 719.4	Cycles Since New (CSN): 287	Time Since Overhaul (TSO): N/A	Cycles Since Overhaul (CSO): N/A		
<b>Purchase Order Instructions:</b> Light overhaul due to overtemp.					
<b>Work Performed:</b> 1) Received engine for Overtemp. 2) Removed the external components, removed the power section module from the gas generator module, disassembled the power section module to gain access to the power turbine components, disassembled hot section components for HSI. 3) Clean all removed components. 4) Inspect and repaired all removed components in accordance with the light overhaul for overtemp. Maintenance level inspected Hot Section components and reinstalled. Reference W/O: 43-01715 Detailed Inspection Record (D.I.R.) for parts repaired and replaced. 5) Detail balanced power turbine components and compressor rotor assembly. 6) Assembled the power section module, installed hot section components with a CT Tip clearance of .018". CT Disk Assembly final diameter 8.554". Installed the power section module on the gas generator assembly. Installed the external components. 7) Tested engine at DFW Center facility. Engine passed test and returned to Grapevine for preservation. 8) Preserved engine for long-term storage. Note: Installer must depreserve engine, perform documented satisfactory engine performance run, and leak check before returning engine back to service.					
					
All work accomplished in accordance with the Pratt & Whitney Canada PT6A-42A Maintenance Manual P/N: 3021442 Revision No. 67.0 Dated August 21, 2023 and Overhaul Mnaual P/N: 3021443 Revision No. 55.0 Dated June 26, 2023.					
Pertinent details of this repair are on file at this repair station under work order: 43-01715.					
Certifies that the work performed was carried out in accordance with the FAA airworthiness regulations and approved manufacturer's technical data.					
Completed By: Nathaniel Sedore		Signature: 		Date: December 28, 2023	

## PT6A ENGINE PERFORMANCE DECLARATION

<b>Customer:</b>	VECTOR	<b>Work Order:</b>	RPR63134
<b>Serial Number:</b>	PCE-RM0715	<b>Date:</b>	12/18/2023
<b>Model:</b>	PT6A-42A	<b>Test Type:</b>	REPAIR
<b>Build Spec:</b>	0	<b>Test Cell:</b>	3

<b>CT Vane Area:</b>	6.87	<b>PT Vane Area:</b>	19.77
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### Corrected Engine Performance

Rating	SHP	NG Speed	SFC	Tt5 (°R)
Performance Ref. Data	850	35505	0.609	1675
Trim Determination Data Plate Speed		35505	94.8% @ 850 SHP	
FCU Max NG Stop				
Data Plate T5 Trim	67.6 °F 37.6 °C Resistance: 26.8 Ω			

Parameters extrapolated to rated power.

We hereby certify that this engine has been tested with reference to the manufacturer's instructions for continued airworthiness.

Signed:   
For Repair Station YRRR491L



# Certificate of Conformance

**Description: Engine Change Kit**  
**Kit #: PT6A-41&42CHGKT W/O # 43-18641**

Part Number	Part Description	Qty.	Condition Code
AS3208-04	PACKING, PREFORMED	3	NEW
AS3208-10	PACKING, PREFORMED	3	NEW
AS3208-12	PACKING, PREFORMED	2	NEW
AS3209-114	PACKING, PREFORMED	1	NEW
AS3209-115	PACKING, PREFORMED	1	NEW
AS3209-213	PACKING, PREFORMED	2	NEW
MS29512-04	O-RING	3	NEW
MS29513-113	O-RING	1	NEW
MS29561-022	O-RING	1	NEW
MS29561-114	O-RING	1	NEW
MS29561-119	O-RING	2	NEW
MS35769-8	GASKET	1	NEW
ST3276-01	GASKET,4 HOLE,ACC MOUNT	3	NEW
ST3277-01	GASKET	1	NEW
3039936	GASKET,750 ID, 4 HOLE	1	NEW
<del>3118953-01</del>	<del>GASKET,O/SPEED GOV MOUNT</del>	<del>1</del>	<del>NEW</del>
MS24665-285	PIN,COTTER,.094X1.000	4	NEW
MS24665-134	PIN,COTTER	3	NEW
AS3209-135	PACKING, PREFORMED	2	NEW
C-3317-230	SEAL	1	NEW

THIS CERTIFIES THAT THE ABOVE LISTED PARTS WERE MANUFACTURED BY PRATT & WHITNEY OR AN APPROVE SOURCE FOR USE IN AVIATION APPLICATIONS AND MEETS TRANSPORT CANADA AVAITION REGULATORY REQUIREMENTS. THESE PARTS WERE NOT PURCHASED FROM ANY GOVERNMENT OR MILITARY SOURCE. THE COMPONENT SPECIFIED BY THIS DOCUMENT HAS BEEN INSPECTED AND CONFORMS TO THE SPECIFICATIONS RELEVANT IN ACCORDANCE WITH THE CONDITION OF THE PURCHASE ORDER. SUPPORTING DOCUMENTS MAINTAINED ON FILE AT VECTOR AEROSPACE (DBA STANDARDAERO).

**NOTE:** This certificate is not an Authorized Release Certificate and does not constitute authority to install.

Vector Aerospace Engine Services-Atlantic Inc.(dba StandardAero)  
PO Box 150  
Summerside, Prince Edward Island  
Canada, C1N 4P6  
AMO# 3-92  
Tel: (902) 436-1333  
Fax: (902) 436-0666

Inspector: Lynda Coughlin

Signature:  

Date: 2023/04/18



1. Autorité de l'aviation civile / Pays qui approuve le bon de sortie  
**Transport Canada** / **Transport Canada**

2. **BON DE SORTIE AUTORISÉE**  
**AUTHORIZED RELEASE CERTIFICATE**  
**FORM ONE**

3. N° de suivi du formulaire - Form Tracking No.  
**8000360743/43920326**

4. Nom et adresse de l'organisme - Organization Name & Address



**60 BEYOND**  
 Prati & Whitney Canada Corp.  
 SERVICE CENTRE ST-HUBERT  
 7007 de la Savane  
 St-Hubert, Québec,  
 Canada J3Y 3X7

5. Bon de travail/contrat/fracture - Work Order/Contract/Invoice  
**6433486 -0020**

6. Article Item	7. Description	8. Numéro de pièce Part No.	9. Citee City	10. N° de série/de lot Serial/Batch No.	11. Situation / Travail Status / Work
0001	FUEL CONTROL UNIT	4138014-2	0001	C82454	<b>OVERHAULED</b>

12. Remarques - Remarks

Component(s) Overhauled in accordance with:  
 OHM 3244799 REV.1 AND APPROVED DATA  
 Refer to Component Condition Report Attached for Parts replaced and additional information.

**"Work has been carried-out in accordance with:"**  
 EU regulations EASA under approval No. EASA.145.7098

Details of work accomplished are recorded under Sales Order referred in block 5

TMSN N/A TSO 0.0

**Customer P.O.: Refer to Packing Slip** **RM0715**  
**Dernière Installation - Last Installation**

<p>13a. Le présent bon de sortie certifie que les articles indiqués ci-dessus ont été construits conformément à :          Certifies that the items identified above were manufactured in conformity to :</p> <p><input type="checkbox"/> Des données de conception approuvées et qu'ils peuvent être utilisés en toute sécurité.  <input type="checkbox"/> Approved design data and are in condition for safe operation.  <input type="checkbox"/> Des données de conception non approuvées indiquées à la case 12.  <input type="checkbox"/> Non approved design data specified in block 12.</p>		13c. Numéro de l'organisme agréé Approved Organization Number
13b. Signature		
13d. Nom - Name		13e. Date (JJ/MM/AAAA - DD/MM/YYYY)
<p>14a. <input checked="" type="checkbox"/> RAC 571.10 (Certification après maintenance) - CAR 571.10 Maintenance Release.  <input checked="" type="checkbox"/> Autre réglementation précisée à la case 12 - Other regulation specified in block 12.</p> <p>Le présent bon de sortie certifie que, sauf indication contraire à la case 12, le travail indiqué à la case 11 et décrit à la case 12, a été effectué conformément au Règlement de l'aviation canadien.          Certifies that, unless otherwise specified in block 12, the work identified in block 11 and described in block 12, has been performed in compliance with the Canadian Aviation Regulations.</p>		14b. Signature
14d. Nom - Name		14c. Numéro de l'organisme agréé Approved Organization No.
<p>14e. Date (JJ/MM/AAAA - DD/MM/YYYY)</p>		

**\* Responsabilités du monteur**


- Installer Responsibilities

This certificate does not constitute authority to install.  
 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.  
 Statements in block 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.

N34RF

1. Approving Civil Aviation Authority/Country: 2. Form Tracking Number: 39-00330

FAA/UNITED STATES AUTHORIZED RELEASE CERTIFICATE  
 FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG 490/29

4. Organization Name and Address:  
  
**StandardAero**  
 1680 Roberts Boulevard, Suite 404  
 Kennesaw, Georgia 30144  
 FAA Certified Repair Station # I6GR874Y

6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:
1	MANIFOLD, FUEL (PRI)	3100456-03	7	VK3995-VK4001	INSPECTED
2	MANIFOLD, FUEL (SEC)	3100458-03	6	VK4002-VK4007	
3	ADAPTER, INLET	3100453-03	1	VK3994	
4	SHEATH	3119920-01	14	N/A	

12. Remarks:  
 Inspected in accordance with the Pratt & Whitney Canada PT6A-42A Maintenance Manual, P/N: 3021442, Rev. No. 55.0 dated July 23, 2018.  
 Removed from PCE-RM0715.  
 Pertinent details of work performed are on file at this repair station under work order 39-00330.

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

Approved design data and are in a condition for safe operation

Non-approved design data specified in Block 12.


13b. Authorized Signature: \_\_\_\_\_

13c. Approval/ Authorization No: \_\_\_\_\_

13d. Name (Typed or Printed): \_\_\_\_\_

13e. Date (dd/mm/yyyy): \_\_\_\_\_

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

14b. Authorized Signature: 

14c. Approval/ Certificate No: **I6GR874Y**

14d. Name (Typed or Printed): Jon R. Martin

14e. Date (dd/mm/yyyy): 08FEB2019

**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.

Completed By: Jon Martin	Signature: 	Date: February 8, 2019
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Certifies that the work performed was carried out in accordance with the FAA airworthiness regulations and approved manufacturer's technical data.

All work accomplished in accordance with the Pratt & Whitney Canada PT6A-42A Maintenance Manual, P/N: 3021442, Rev. No. 55.0 dated July 23, 2018.

Pertinent details of this repair are on file at this repair station under work order: 39-00330.


Work Performed:

Cleaned, inspected and functionally tested (7) each P/N: 3100456-03 Primary, (6) each P/N: 3100458-03 Secondary, and (1) each P/N: 3100453-03 Inlet Adapter, S/N's VK3994-VK4007. No discrepancies noted.

Cleaned and inspected (14) each P/N: 3119920-01 Fuel Nozzle Sheaths. No discrepancies noted.

Purchase Order Instructions: Clean & Spray Check Fuel Nozzle Set.

Customer:	Customer Number: E50867	Customer P/O Number: 5104	Work Order No: 39-00330
Flightline Group	Customer Number: E50867	Customer P/O Number: 5104	Work Order No: 39-00330
Component Part Number: 3120055-01	Component Serial Number: PCE-RM0715	Description: Assembly, Complete Engine	Qty: 1
Manufacturer: Pratt & Whitney Canada	Engine Type: PT6A-42A	Reason for removal: N/A	
Time Since New (TSN): 275.8	Cycles Since New (CSN): Not Provided	Time Since Overhaul (TSO): N/A	Cycles Since Overhaul (CSO): N/A

	<b>StandardAero</b> Detailed Work Instruction FAA Certified Repair Station #: I6GR874Y; EASA # 145.5607 - Kennesaw, GA	Date: February 8, 2019
		Order/Task: 490/29



