PT. SMART CAKRAWALA AVIATION

WORK ORDER

Form: SCA/MTC/030

Subject : **Engine Replacement**	No.	WO/050-SNK/IX/2023
	Date	8 Sept 2023
	A/C Reg.	PK-SNK C208-00658
Reference : MP C208B Issued 01	Prepared By	TS
	Checked By	CI
	Approved By	TM

To : Engineer In Charge

Description :

1. Perform Engine Replacement
2. Make an entry in Maintenance Log.
3. Return the Completed Work Order and Form to PPC.

#If any finding, please close the routine card, and transferred to inspection card.

Additional Work :

-NIL-

Compliance Statement	Sign & Date Company Ic. No.:	Signature
	12/ 2023 SEPT' SCA 009. FEBRI HERMAWAN (Engineer In Charge)	(Technical Manager)

AIRCRAFT CHECK WORK SUMMARY
(Form: SCA/MTC/051)

DATE OF ISSUED	JO/WO #	TYPE OF MAINTENANCE	DATE OF ACCOMPLISHED
8 Sep 2023	WO/050-SNK/IX/2023	Replacement	17- SEPT' - 2023

A/C Type	Mfg. Serial Number	A/C Registration
C208	C208-00658	PK-SNK

AIRCRAFT DATA

Subject	Pos #	Serial Number (SN)	TTSN/TCSN
Engine	#1	PCE-PC1288	6989:64 / 9238
	~~#2~~	- TSO & CSO	00:00 / 0
Propeller/Rotor	#1	190345	233:13
	#2	-	
Landing Gear	NLG		4226:11 / 5821
	LH MLG		4226:11 / 5821
	RH MLG		4226:11 / 5821.

PACKAGE COVERED

No	Subject	Qty	Remark
1	Non-Routine Card	1	
2	Inspection Card	1	
3	Work Order	1	
4	Summary Inspection List	1	
5	Material and Tool List	-	
6	Escalation form	-	
7	CRS (SMI / Unscheduled Maintenance)	1	

INSPECTION CARD (IC) LIST (Finding during maintenance)

No	Taskcard Ref	Subject	Status		Name/ Sign & Stamp
			Open	Close	
IC-001					
IC-002					
IC-003					
IC-004					
IC-005					
IC-006					

IC-007					
IC-008					
IC-009					
IC-010					
IC-011					
IC-012					
IC-013					
IC-014					
IC-015					

Prepared by : Technical Support	Checked by : Chief Maintenance	Verified by : Chief Inspector	Approved by : Technical Manager
Hani	Dodit	Yanuar	Istiono

PT. SMART CAKRAWALA AVIATION

CERTIFICATE RETURN TO SERVICE

SCHEDULED MAINTENANCE INSPECTION
(CRS-SMI)

A/C TYPE	: CESSNA 208	TTSN	: 4226 : 11
A/C REG	: PK-SNK	TCSN	: 5821 .
MSN	: C208-00658	DATE	: 12-SEP-2023

TYPE OF INSPECTION : ENGINE REPLACEMENT
DUE AT : ~~3600 HRS~~ 4.100. HRS
REFF : MP C208B ISSUED 01

EXCEPTION

— NIL —

AUTHORIZED PERSON

I hereby certify that this aircraft has been maintained accordance with CASR and Maintenance Program. Aircraft safe and airworthy for flight

NAME	CAT	AMEL/OTR NO	SIGN&STAMP	DATE
FEBRI HERMAWAN	AIRFRAME & POWER PLANT	6445 SCA.009		18 / SEPT / 2023
N/A	EIRA	N/A	N/A	

THE NEXT DUE TYPE OF INSPECTION : ENGINE REPLACEMENT FOR OVER HAUL

DUE AT : 4.100:00. FLIGHT HOURS/ENGINE HRS TSO.

Form: SCA/MTC/049

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SUMMARY INSPECTION ITEMS
(Form: SCA/MTC/050)

WO Ref: WO/050-SNK/IX/2023

NO.	TASK CARD NO.	DESCRIPTION	DATE	EST MHR	NAME	STAMP
1	NRC-001	ENGINE REPLACEMENT / EO-011	17 / SEPT' 2023	-	FEBRI HERHAWAN	

NRC No. : 001

NON ROUTINE CARD
(Form: SCA/MTC/047)

1. JO/WO #	2. DATE	3. MTC TYPE	4. A/C REG/MSN
WO/050-SNK/IX/2023	11-SEPT'- 2023	COMPONENT REPLACEMENT	PK-SNK
5. CARD #	6. ATA SPEC	7. TRADE	8. STA
001	72	ENGINE	MALINAU.
9. ZONE	10. PANEL		
ENGINE			

11. DESCRIPTION

PERFORM ENGINE REPLACEMENT
P/N OFF: PT6A-114A / 3044000 P/N ON: PT6A-114A / 3044000
S/N OFF: PCE-PC 1988 S/N ON: PCE-PC 1288

REFERENCE	☒ 011/EO/TEK-TS/IX/2023	☐	☐ OTHER
RII (*)	☐ Y	☐ N	MHR :

12. RESULT

PERFORMED ENGINE REPLACEMENT
P/N OFF : PT6A-114A/3044000 P/N ON : PT6A-114A/3044000
S/N OFF : PCE-PC1988 S/N ON : PCE-PC 1288 WAS DONE.
FOR MORE DETAIL INFO PLEASE SEE EO-NO : 011/EO/TEK-TS/IX/2023
Performed at A/C TT : 42206:11 A/C TC /LDG : 5983

	MECH	ENG	INSP (*)

FINDING	☐ Y	☑ N	ACT MHR :	DATE/TIME (DD/MM/YY)		
INSPECTION CARD (IC) #				17	SEPT'	2023.

1. PARTS REQUIRED

DESCRIPTION	PART NO	QTY	REMARK	
			STOCK	STATUS
FOR DETAILS PLEASE SEE ON E/O. NO: 011/EO/TEK-TS/IX/2023	N/A	N/A	N/A	N/A

1. TOOLS REQUIRED

DESCRIPTION	PART NO / MODEL	NEXT CALIBRATION DATE	STATUS
FOR DETAIL PLEASE SEE ON E/O. NO: 011/EO/TEK-TS/IX/2023	N/A	N/A	N/A

Distribution : 1. White : PPC/Engineering 2. Red : Quality 3. Yellow : Retain on Log Book

ENGINEERING ORDER

011/EO/TEK-TS/IX/2023

REMOVAL & INSTALLATION OF ENGINE ASSY PT6A-114A ON CESSNA C208B

PT. SMART CAKRAWALA AVIATION

Prepared	Checked	Approved
Technical Support	**Chief Inspector**	**Technical Manager**
Signature:	Signature:	Signature:
Name: Dwi M.	Name: Yanuar A. F.	Name: Istiono
Date: 08 Sep 2023	Date: 08 Sep 2023	Date: 08 Sep 2023

SMART AVIATION
ENGINEERING ORDER

	No. EI: **011/EO/TEK-TS/IX/2023**	Rev. No. : **Original**
	Date Issued : **08 September 2023**	
Task Description : **REMOVAL & INSTALLATION OF ENGINE ASSY PT6A-114A ON CESSNA C208B**	Data Reference : - **Model 208 Series Maintenance Manual Revision 37, Revision Date Mar 1, 2020 Chapter 71 Power Plant – Maintenance Practices**	
Aircraft Type : **CESSNA C208B WITH ENGINE MODEL PT6A-114A / PT6A114**		

SMART AVIATION
ENGINEERING ORDER

1. Description.

This EO is issued, to perform removal & installation checklist powerplant maintenance practices the PT6A-114/PT6A-114A engine on Cessna C208B.

2. Aircraft Effectivity.

REGISTRATION	SERIAL NUMBER
PK-SNK	208-00658

3. Compliance

The Engine model PT6A-114A have TBO 3600 Hours, do a removal the engine installed on airframe refer to accomplishment instruction task card, and install the overhauled/new engine on the aircraft refer to accomplishment instruction task card.

4. Distribution.

TECHNICAL MANAGER	[ ]	MATERIAL SUPPORT	[ ]
SAFETY & QUALITY MANAGER	[ ]	TECHNICAL SUPPORT	[ ]
CHIEF INSPECTOR	[ ]	FILE	[ ]

5. Manhours

32.0 man-hour to do the inspection.

6. Material.

PWC09-005	Compound, Universal
PWC09-006	Compound, Universal
PWC11-027	Solvent, Petroelum
PWC11-031	Cleaner, Engine

7. Special Tool Required.

PWC34300	Stand, Engine
PWC51861-600	Sling Assembly, Engine

8. Publication Affected.

None.

SMART AVIATION
ENGINEERING ORDER

9. Accomplishment Instructions.

C208B ENGINE REMOVAL

Date	: 11- SEPT- 2023	Work Number	:011/EO/TEK-TS/IX/2023.
Part No. Engine	: PT6A-114A	A/C Total Hours	:_4226:11 Hrs_____
Ser. No. Engine	:PCE-PC 1988	A/C Total Landings	:_5983 Ldg_____
Engine Time	TSN: 7062:36 Hrs	TSO: 3762:13 Hrs	
	CSN: 106236 Cyc	CSO: 7923 Cyc	

Removed from A/C Reg. : PK-SNK

Description	Eng.	RII	Remarks
A. REMOVE ENGINE (Refer to Figure 01 and Figure 02)			
CAUTION: Chock main wheels and place a tailstand under tailcone before attempting engine removal.			
1. Turn electrical power off.			
2. Pull fuel firewall shutoff control out (off).			
3. Remove upper cowling doors and lower cowling panels.			
4. Drain residual fuel from lines and fuel filter using filter drain. Remove fuel supply hose at fuel heater. Remove fuel motive flow hose at fuel control unit.			
5. Remove right nose cap and oil cooler.			
6. Remove top cowl center panel assembly and nose cap.			
7. Remove propeller.			

SMART AVIATION
ENGINEERING ORDER

8. Disconnect and remove propeller speed control cable.			
9. Remove the left nose cap/induction air duct/inertial air separator.			
10. Disconnect cabin heater bleed air line at flow control valve and bleed air hose at mixing air valve.			
11. Remove starter/generator cooling air hose from starter/generator.			
12. Remove engine fire detector wiring harness.			
13. Disconnect electrical wiring connectors and ground wires at the following equipment locations: i) Propeller overspeed governor and ITT harness (left front of engine).			
ii) Propeller tachometer generator (right front of engine)			
iii) Cabin bleed air heater flow control valve (lower right side of engine).			
iv) il temperature sensor (right side of engine).			
v) Fuel control heater (right rear of engine).			
vi) Gas generator section tachometer generator (lower right side of engine).			
vii) Starter/generator (center top of engine accessory case).			
viii) Ignition exciter high tension leads at ignition exciter (right engine mount truss).			

SMART AVIATION
ENGINEERING ORDER

14. Disconnect engine power control cables at fuel control unit.			
15. Remove torquemeter pressure and vent lines at forward upper right side of engine mount truss.			
16. Connect hoist sling to forward and aft lifting brackets and connect sling to engine hoist.			
17. Raise hoist to just support weight of engine and remove nuts and bolts at each of four corners of engine mounting ring.			
18. Ensure all wiring and lines are free, then carefully move hoist and engine forward to clear engine mount truss.			
19. If engine is to be returned for overhaul or replaced, remove the following items: i) Engine induction air plenum. Refer to Chapter 71, Engine cowling and Nose Cap - Maintenance Practices.			
ii) Engine mount ring, elastomers, and engine mount brackets. Refer to Chapter 71, Engine mount – Maintenance Practices.			
iii) Propeller overspeed governor. Refer to Chapter 61, Propeller Control - Maintenance Practices.			
iv) Propeller tachometer generator. Refer to Chapter 77, Propeller RPM Indicator - Maintenance Practices.			
v) Oil temperature sensing sensor. Refer to Chapter 79, Oil Indicating - Maintenance Practices.			
vi) Oil cooler bracket and pressure/return hoses. Refer to Chapter 79, Oil Distribution - Maintenance Practices.			

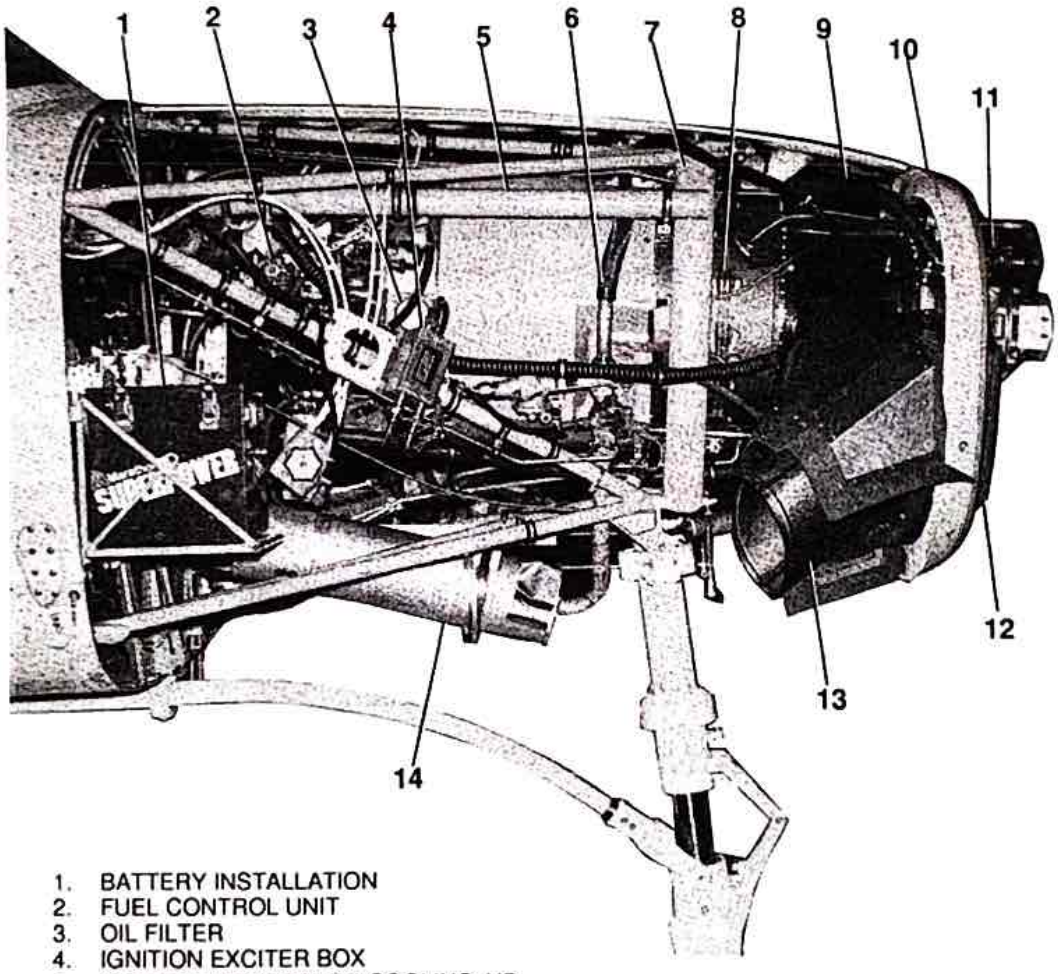
SMART AVIATION
ENGINEERING ORDER

vii) Standby alternator (if equipped). Refer to Chapter 24, Standby Electrical System - Maintenance Practices.			
viii) Torque sensing line and fittings.			
20. Make and inventory record P/N and S/N of the engine and its accessories from the engine that removed, fill out into the List (Form Engine Change – Major Component Inventory Record)			
21. Make an appropriate entry in Work Order (WO) and Aircraft Flight Maintenance Log (AFML)			

***** END OF THE TASK *****

SMART AVIATION
ENGINEERING ORDER

A21758



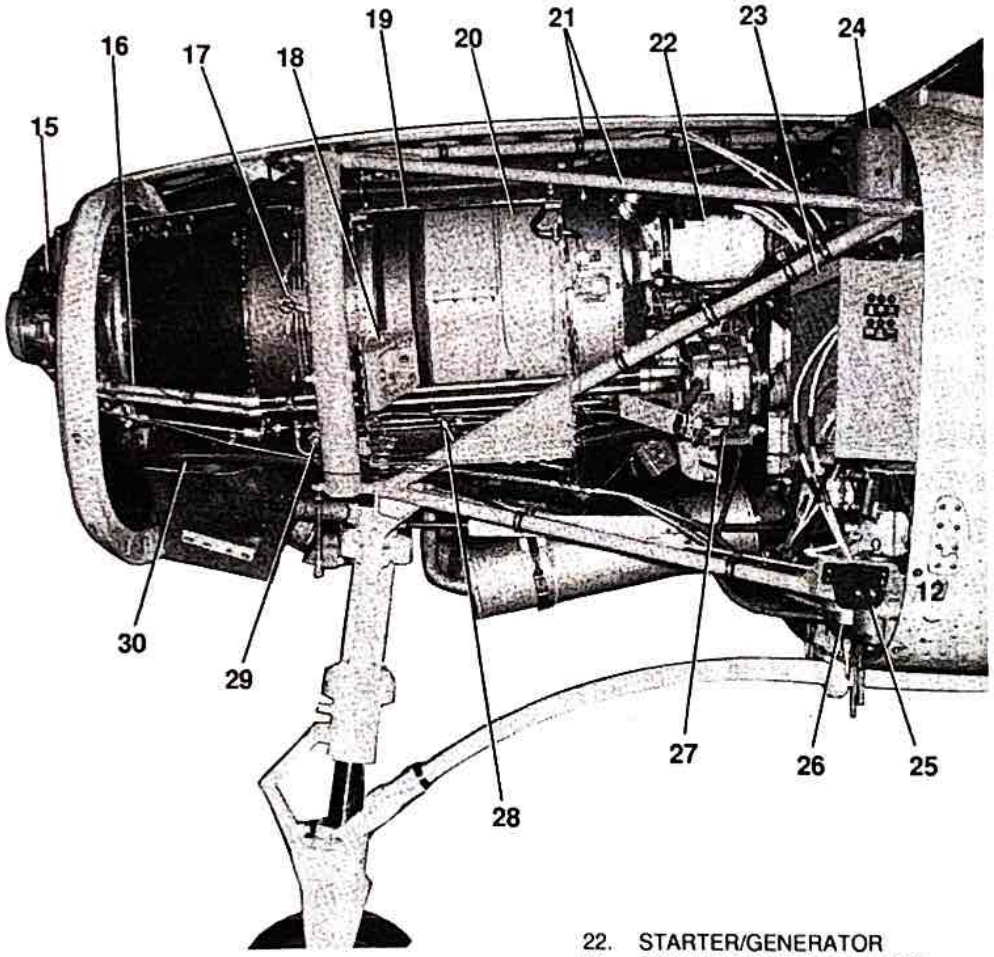
1. BATTERY INSTALLATION
2. FUEL CONTROL UNIT
3. OIL FILTER
4. IGNITION EXCITER BOX
5. STARTER/GENERATOR COOLING AIR BLAST TUBE
6. BLEED AIR PRESSURE LINE
7. ENGINE MOUNT RING
8. FUEL MANIFOLD
9. OIL RETURN FROM OIL COOLER
10. RIGHT COWLING BULKHEAD
11. PROPELLER GOVERNOR
12. OIL COOLER
13. PRIMARY EXHAUST STACK
14. BLEED AIR HEATER MUFFLER

2650X1002

Figure 01 Sheet 1

SMART AVIATION
ENGINEERING ORDER

A21759



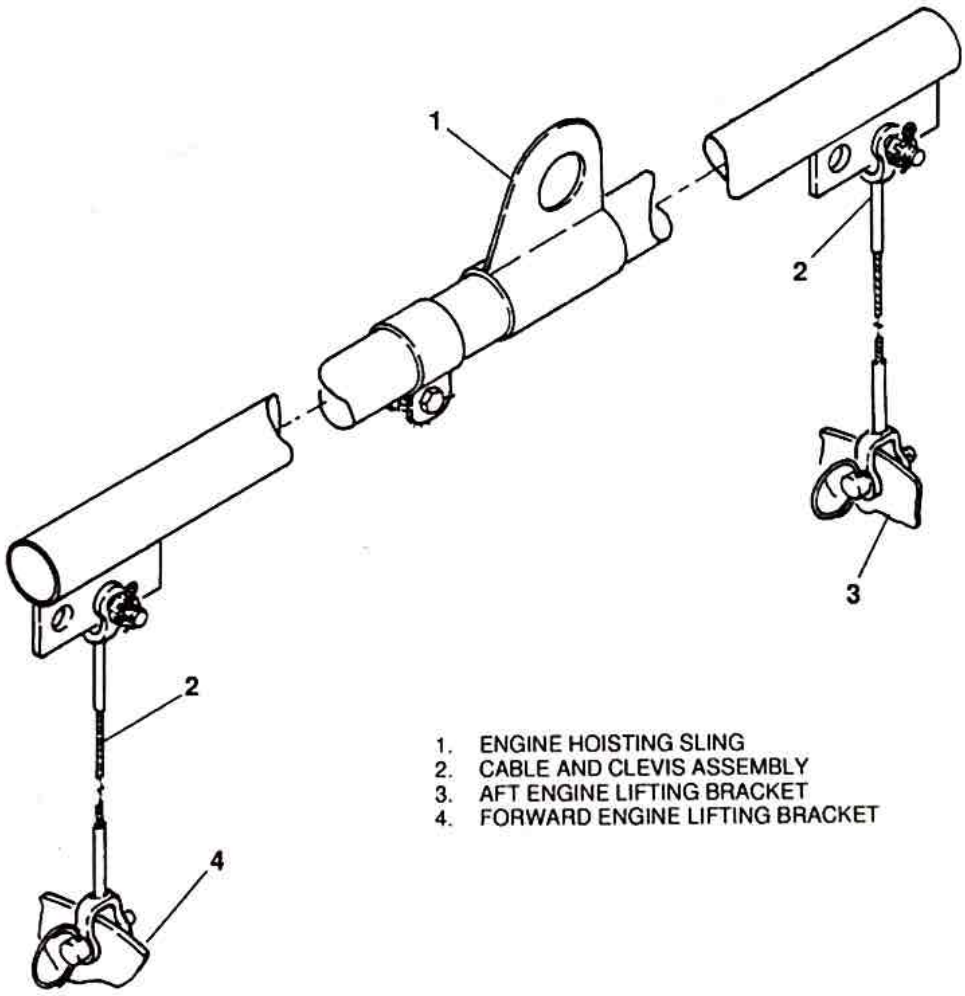
15. PROPELLER OVERSPEED GOVERNOR
16. REDUCTION GEARBOX OIL LINES
17. SPARK IGNITER
18. ENGINE MOUNT BRACKET
19. INDUCTION AIR PLENUM
20. COMPRESSOR INLET
21. ENGINE MOUNT TRUSS
22. STARTER/GENERATOR
23. POWER DISTRIBUTION BOX
24. STANDBY ALTERNATOR CONTROL UNIT
25. AUXILIARY POWER RECEPTACLE
26. FUEL FILTER
27. STANDBY ALTERNATOR
28. COMPRESSOR DRAIN LINE
29. FUEL MANIFOLD DUMP VALVE
30. OIL COOLER PRESSURE HOSE

2650X1003

Figure 1 Sheet 2

SMART AVIATION
ENGINEERING ORDER

A21760



1. ENGINE HOISTING SLING
2. CABLE AND CLEVIS ASSEMBLY
3. AFT ENGINE LIFTING BRACKET
4. FORWARD ENGINE LIFTING BRACKET

2680X1044

Figure 02

SMART AVIATION
ENGINEERING ORDER

C208B ENGINE INSTALLATION

Date : 12-SEPT'-2023.
Work Number : 011/EO/TEK-TS/IX/2023.
Part No. Engine : PT6A-114A
A/C Total Hours : 4226:11
Ser. No. Engine : PCE-PC 1288
A/C Total Landings : 5983.
Engine Time TSN: 6989:64 TSO: 0:00
CSN: 9238 Cyc CSO:0
Installed on A/C Reg. : PK-SNK

Description	Eng.	RII	Remarks
B. INSTALL ENGINE (Refer to Figure 01 and Figure 02).			
1. Make and inventory record P/N and S/N of the engine and its accessories. Fill out into the List (Form Engine Change – Major Component Inventory Record)			
2. Install engine mount brackets, elastomers, and engine mount ring. Refer to Chapter 71, Engine mount – Maintenance Practices.			
3. Connect lifting hoist sling to forward and aft lifting brackets on engine and lift engine into position forward of engine mount truss.			
4. Make sure that all engine lines and equipment are clear.			
5. Lubricate the engine mount bolts with MIL-PRF-81322G Grease, before you install them to prevent corrosion.			
6. Make sure that the threads of bolts are covered during application of grease. Lubrication on threads can alter the torque reading.			
7. Move the hoist and engine aft to align the engine mount ring holes with the holes in the engine mount truss.			
8. Install the mount bolts (engine mount truss to engine mount ring) and torque the bolt/nuts to 450 to 500 inch-pounds (50.8 to 56.4 N-m). Remove the hoist and sling.			

SMART AVIATION
ENGINEERING ORDER

9. Connect torquemeter pressure and vent lines at upper left firewall. Bleed torquemeter indicating system.			
10. Connect engine power controls at fuel control unit. Rig controls.			
11. Connect the electrical leads of the following items of electrical equipment: i) Ignition exciter high tension leads at ignition exciter (right engine mount truss).			
ii) Starter/generator (center top of engine accessory case).			
iii) Gas generator section tachometer generator (lower right side of engine).			
iv) Fuel control heater (right rear of engine).			
v) Oil temperature sensor (right rear of engine).			
vi) Cabin bleed air heater flow control valve (lower right side of engine).			
vii) All engine to engine mount ground straps.			
viii) Propeller overspeed governor and ITT harness (left front of engine).			
ix) Propeller tachometer generator (right front of engine).			
12. Install engine fire detector warning harness.			
13. Connect starter/generator cooling air hose to starter/generator.			

SMART AVIATION
ENGINEERING ORDER

14. Connect engine bleed air line to cabin bleed air heater flow control valve. Connect engine bleed air hose to cabin bleed air heater mixing air valve.			
15. Install left nose cap/induction air duct/inertial air separator, if not previously installed.			
16. Install propeller, if not previously installed.			
17. Install and connect propeller governor control cable.			
18. Install left and right nose cap bulkhead assemblies and top cowling center panel.			
19. Install oil cooler and right nose cap.			
20. Connect fuel supply hose at fuel heater and fuel motive flow hose at fuel control unit.			
21. Push fuel firewall shutoff control fully in.			
22. With fuel line disconnected at fuel manifold below engine, motor engine with starter to purge fuel lines.			
23. Perform RII Dual Inspection **before** to first engine start.			
24. Start engine and perform operational check. Refer to Pilot's Operating Handbook and FAA-Approved Airplane Flight Manual.			
25. Perform Ground Run, Use the Pratt and Whitney PT6A-114/-114A/-135/-135A Engine Maintenance Manual with the Pilot's Operating Handbook and FAA-Approved Airplane Flight Manual to do the operational check of the different components on the engine.			
26. Shut down engine and check for fluid leaks, connections or hardware, etc.			
27. Perform RII inspection if any controls have been disturbed or adjusted.			

SMART AVIATION
ENGINEERING ORDER

28. Install engine cowling.			
29. Make an appropriate entry in Work Order (WO) and Aircraft Flight Maintenance Log (AFML)			

MAINTENANCE RELEASE

I hereby certify that the above stated maintenance and/or inspection was performed in accordance with the approved Aircraft Maintenance Program and meets requirements of Civil Aviation Safety Regulations.

Name : FEBRI HERMAWAN. Stamp : 09

Signature : Place/Date : MALINAU / 17-SEPT-2023.

ENGINE CHANGE - Major Component Inventory Record			
Registration	: PK-SNK	**Work Order Number**	:011/EO/TEK-TS/IX/2023
Airframe Time	: 4226:11	**Airframe Landings**	: 5990
Engine Time ~~TBO~~ TSO	: 00:00. TSN:6.989.64	**Engine Cycle** ~~TBO~~ TSO.	: 00:00. TSN:9238

	Engine OFF			**Engine ON**		
Description	**Part Number**	**Serial Number**	**Time Remaining**	**Part Number**	**Serial Number**	**Time Remaining**
Engine Assembly				3044000	PCE-PC1288	4.100 : 00 F.H
Propeller Assembly	N/A	N/A		3GFR34C703	130896	
Compressor Bleed Valve	540-1407-4	7709		3049038-03	4963	
Fuel Control Unit				3244897-4	C66799	
Oil Fuel Heater				10552E	WA23408	
Igniter Exciter						
Flow Divider				3019906255364	9959512673	
Oil Cooler				107518	2570	
Starter Generator				300SGL145Q	S00661	
Alternator				9910592-2	H-T031771	
Fuel Pump				3034792E	001251	
Propeller Governor				8210-002-801	13039147	
Propeller Overspeed Governor				66503-210792	21605594	
Fuel Nozzle						

NOTE: ANY OTHER COMPONENT CHANGES MUST BE FILL ON INSPECTION CARD (SCA/MTC/048)

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Additional Work Sheet

Aircraft Registration: **PK-SNK**

EO NO : 011/EO/TEK-TS/IX/2023

WO# Nr: **WO/05 -SNK/IX/2023**

Parts Used Sheet 2

Part Used

Date	Part Nr.	Serial Nr.	Description	Quantity	Engineer
14 SEPT 2023	AS5174D1210		REDUCER	1 EA	FEBRI
14 SEPT 2023	S1053K16T		DUCT	1 EA	FEBRI
14 SEPT 2023	P265-5037-2		OIL PRESSURE TRANDUCER	1 EA	FEBRI
14 SEPT 2023	A1633-72		ORING HUB	1 EA	FEBRI
14 SEPT 2023	A1639-32		NUT	8 EA	FEBRI
14 SEPT 2023	BS121		FEEDBACK ASSY	1 EA	FEBRI
14 SEPT 2023	MS206685		GASKET	1 EA	FEBRI
14 SEPT 2023	AN4044-1		GASKET	1 EA	FEBRI
14 SEPT 2023	MB3298-1-113		ORING	1 EA	FEBRI
14 SEPT 2023	S3346-1		GASKET	5 EA	FEBRI
14 SEPT 2023	9910333-1		ELASTONER	6 EA	FEBRI
14 SEPT 2023	NAS 607-5-5		PIN	3 EA	FEBRI
14 SEPT 2023	NAS 607-4-5		PIN	3 EA	FEBRI
14 SEPT 2023	MS20007-68/NAS 147-81		BOLT	1 EA	FEBRI
14 SEPT 2023	NAS 147-97		BOLT	1 EA	FEBRI
14 SEPT 2023	MS20007-70/NAS 147-84		BOLT	2 EA	FEBRI
14 SEPT 2023	AN 363-720		BOLT NUT	4 EA	FEBRI
14 SEPT 2023	S3359-1		BOLT	12EA	FEBRI
14 SEPT 2023	MS20002C6		WASHER	12 EA	FEBRI
14 SEPT 2023	S3461-64		BOLT	3 EA	FEBRI
14 SEPT 2023	AN310C8		NUT	3 EA	FEBRI
14 SEPT 2023	MS20002C8		WASHER	3 EA	FEBRI
14 SEPT 2023	MS21665-302		COTTER PIN	10 EA	FEBRI
14 SEPT 2023	MS29215-23		COTTER PIN	10 EA	FEBRI
14 SEPT 2023	MS21665-139		COTTER PIN	15 EA	FEBRI

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Additional Work Sheet

Aircraft Registration: **PK-SNK**

Parts Used Sheet 2

WO# Nr: **WO/05 -SNK/IX/2023**

Part Used

Date	Part Nr.	Serial Nr.	Description	Quantity	Engineer
14 SEPT 2023	MS29665-86		COTTER PIN	4 EA	FERRI
14 SEPT 2023	3007342	— NSN —	GASKET	2 EA	FERRI
14 SEPT 2023	S51-14		HOSE	1 EA	FERRI
14 SEPT 2023	AE366372GH0520		HOSE	2 EA	FERRI.

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Additional Work Sheet

EO.No: 011/EO/TEK-TS/IX/2023 Parts Used Sheet 1

Aircraft Registration: **PK-SNK**

WO# Nr: WO/05-SNK/IX/2023

Special Tool Used

No.	Description	P/N	Due Date	Engineer
1	TORQUE WRENCH	10268841	SEP'- 2024	FERRI
2	TORQUE WRENCH	BPSOI NMRMH	AUG'- 2024	FERRI
3	TORQUE WRENCH	96212	AUG - 2024	FERRI
4	TORQUE WRENCH	10268842	30SEPT- 2023	FERRI
5	PROPELLER PULLER.	LOCAL	O/C	FERRI.

1. Approving National Aviation Authority/Country:	2	3. Form Tracking Number:
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	PHX-080723-102938

4. Organization Name and Address:			5. Work Order/Contract/Invoice Number:
PRIMETURBINES	**Prime Turbines LLC** 3130 North Oakland, Ste 104 Mesa, AZ 85215	**FAA Certificate 5TPR585C** Phone: 480-428-6341 Fax: 480-219-3587	M5O1090

6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial/Batch Number:	11. Status/Work:
1	ENGINE PT6A-114A	3044000	1	PCE-PC1288	OVERHAULED

12. Remarks:

OVERHAULED in accordance to Pratt & Whitney Canada Overhaul Manual 3021243 Rev 50 dated 10/24/2022.

SHP: 675 NG: 36200 SFC: 0.643 TRIM STICK P/N: 3031417CL50
725; ITT: 1760
CT VANE P/N: 3123001CL01 S/N HLA600P CAV: 5S2 EFA: 6.13
PT VANE P/N: 3024682CL13.1 S/N 9M739 CAV: 5S6 EFA: 15.98

Details regarding the work performed are on file at Prime Turbines, LLC. under the W/O number listed in block (5)

TSN: **6,989.64** TSO: 0.0 CSN: **9,238** CSO: 0.0
This repair station certifies that the work specified in Block 11 12 was carried out in accordance with EASA Part 145 and in respect to that work, the article is considered ready for release to service under the EASA Part 145 Approval Number: EASA.145.6705

13a. Certifies the items identified above were manufactured in conformity to:	14a. ☒ 14 CFR 43.9 Return 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 Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

13b. Authorized Signature:	13c. Approval/Authorization No.:	14b. Authorized Signature:	14c. Approval/Certificate No.:
			5TPR585C
13d. Name (Typed or Printed):	**13e. Date (dd/mmm/yyyy):**	**14d. Name (Typed or Printed):**	**14e. Date (dd/mmm/yyyy):**
		BRIAN LANGEHEINE	02/AUG/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 Block1.

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 Civil Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	52196

4. Organization Name and Address:	5. Work Order/Contract/Invoice Number:
Heritage Turbines, Inc. 35 Hinckley Road Hyannis, MA 02601 Repair Station # H1IR069Y Barnstable Municipal Airport 1-508-778-7788	012076

6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:
1	Bleed Off Valve	3049038-03 (540-1407-4)	1	4963	Overhauled

12. Remarks:

Overhauled Bleed Valve Assy I/A/W Honeywell Component Maintenance Manual P/N 540-1407 Rev.2 Dated Apr. 12, 2017. ATA chapter reference 75-31-44
Control Pressure set at 31.074 PSIA at 70 PSIA I/A/W P&W S.B. 1586R2

ESN: PCE-PC1288

Certifies that the work specified in block 11/12 was carried out in accordance with EASA Part-145 and in respect to that work the component is considered ready for release to service under EASA Part-145 Approval Number: EASA.145.6342

13a. Certifies the items identified above were manufactured in conformity to:	14a. ☑ 14 CFR 43.9 Return to Service ☑ Other regulation specified in Block 12
☐ Approved design data and are in a 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 Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

13b. Authorized Signature:	13c. Approval/Authorization No.:	14b. Authorized Signature:	14c. Approval/Certificate No.: H1IR069Y
13d. Name (Typed or printed):	13e. Date (dd/mmm/yyyy):	14d. Name (Typed or Printed): Jesse Johnson	14e. Date (dd/mmm/yyyy): 06/Jun/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 Block1.

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 Civil Aviation Authority/Country	2.	3. Form Tracking Number
Transport Canada/Canada	**AUTHORIZED RELEASE CERTIFICATE** FORM ONE	**W119291**

4. Organization Name and Address: **Action Aero**
91 Watts Avenue
Charlottetown, PE, Canada C1E 2B7
Ph: 902-370-3311
Fax: 902-370-3313
Email: info@actionaero.com

5. Work Order/Contract/Invoice Number: **012073**

6. Item	7. Description	8. Part Number	9. Quantity	10. Serial Number	11. Status/Work
1	FLOW DIVIDER & DUMP VALVE	301[illegible]25536-4	1	9059512674	OVERHAULED

12. Remarks

ESN PCU-PC1288

Overhauled IAW Triumph CMM 73-10-01 (3020539) Revision 7, Dated July 30/2014
TSO 0.0 Hours

The work specified in blocks 11 and 12 was carried out in accordance with EASA Part 145 and with respect to that work, the aircraft component(s) is are considered ready for release to service under EASA approval number EASA.145.7199

13a. Certified 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

14a ☒ CAR 571.10 Maintenance Release ☒ Other regulation specified in Block 12

Certifies that, except where 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

13b. Authorized Signature	13c. Approval Authorization No.:	14b. Authorized Signature:	14c. Approval Certificate No.:
		Tracy Knowles	AMO# 1-08
13d. Name (Typed or Printed)	13e. Date (dd/mmm/yyyy)	14d. Name (Typed or Printed): Tracy Knowles	14e. Date (dd/mmm/yyyy): 29-May-2023

(Previously Form 24-0078)

User/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 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

This document has been digitally signed using an electronic signature

Q4166 (03/16/2020)

1. Appropriate Civil Aviation Authority/Country

Transport Canada/Canada

AUTHORIZED RELEASE CERTIFICATE
FORM ONE

3. Form Tracking Number

W119285

2. Organization Name and Address: **Action Aero**
91 Watts Avenue
Charlottetown, PE, Canada C1E 2B7
Ph: 902-370-3311
Fax: 902-370-3313
Email: info@actionaero.com

5. Work Order/Contract/Invoice Number

012074

6. Item	7. Description	8. Part Number	9. Quantity	10. Serial Number	11. Status/Work
1	MAIN ENGINE FUEL PUMP	702803-5	1	001251	OVERHAULED

12. Remarks

Argo-Tech Fuel Pump Installation Number 702803, PAWC PN 3034392
Overhauled IAW Argo-Tech CMM 73-10-21, Revision 3, Dated October 01/2007. TSO: 0.0 hours.

ESN PCE-PC 1288

The work specified in blocks 11 and 12 was carried out in accordance with EASA Part 145 and with respect to that work, the aircraft component(s) is/are considered ready for release to service under EASA approval number EASA.145.7199.

13a. Certifies that 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

14a ☒ CAR 571.10 Maintenance Release ☒ Other regulation specified in Block 12

Certifies that, except where 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.

13b. Authorized Signature:	13c. Approval Authorization No.:	14b. Authorized Signature:	14c. Approval/Certificate No.:
			AMO# 1-08
13d. Name (Typed or Printed):	13e. Date (dd-mmm-yyyy):	14d. Name (Typed or Printed): Tracy Knowles	14e. Date (dd-mmm-yyyy): 21-Jun-2023

(Previously Form 24-0078)

User/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 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.

EASA Form 1 (6/2010)

This document has been digitally signed using an electronic signature

1. Approving Civil Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	230908
4. Organization Name and Address: Keystone Turbine Services, 885 Fox Chase, Suite 111, Coatesville, PA 19320 - Certificate No. 8MHR895B		5. Work Order/Contract/Invoice Number: 85018901-EA-FC

6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:
1	FUEL CONTROL	3244897-4	1	C66799	OVERHAULED

12. Remarks:

OVERHAULED & TESTED IAW HONEYWELL CMM 73-20-78 REV. 2 6/8/2021
TSO: 0.0 TRACE TO ESN: PCE-PC1288

Certifies that the work specified in Block 11/12 was carried out in accordance with EASA Part 145 and in respect to that work the article is considered ready for release to service under EASA Part 145 approval no. EASA 145-6410.

13a. Certifies the items identified above were manufactured in conformity to:		14a. ☑ 14 CFR 43.9 Return to Service ☑ Other regulation specified in Block 12	
☐ Approved design data and are in a 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 Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.	
13b. Authorized Signature:	13c. Approval/Authorization No.:	14b. Authorized Signature:	14c. Approval/Certificate No.: 8MHR895B
13d. Name (Typed or Printed):	13e. Date (dd/mmm/yyyy):	14d. Name (Typed or Printed): TIM KLINE	14e. Date (dd/mmm/yyyy): 14/JUL/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.

2. Approving Civil Aviation Authority/Country	3.	4. Form Tracking Number
Transport Canada/Canada	**AUTHORIZED RELEASE CERTIFICATE** FORM ONE	W119287

1. Organization Name and Address: **Action Aero**
91 Watts Avenue
Charlottetown, PE, Canada C1E 2B7
Ph: 902-370-3311
Fax: 902-370-3313
Email: info@actionaero.com

5. Work Order/Contract/Invoice Number: **012075**

6. Item	7. Description	8. Part Number	9. Quantity	10. Serial Number	11. Status/Work
1	11 RIB/PROP GOVERNOR ASSEMBLY	5210492-01	1	13039122	OVERHAULED

12. Remarks

5210492-01 Revision: NEW
Overhauled IAW Woodward Conversion CMM 61-20-14, Revision 3 Dated September 01/1992
TSO'd 0 Hours
Complied with SB 33331C

ESN PCT-PCT288

The work specified in Blocks 11 and 12 was carried out in accordance with EASA Part 145 and with respect to that work, the aircraft component(s) is are considered ready for release to service under EASA approval number EASA.145.7198

13a. Certificate status 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 mmm yyyy)

14a. [X] CAR 571.10 Maintenance Release [X] Other regulation specified in Block 12

Certifies that, except where 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

14b. Authorized Signature: Roland Smith (AME)

14c. Approval Certificate No.: AMO# 1-08

14d. Name (Typed or Printed): Roland Smith

14e. Date (dd mmm yyyy): 30-May-2023

(Previously Form 24-0078)

User/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 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.

This document has been digitally signed using an electronic signature

1. Approving Civil Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	MRO4242

4. Organization Name and Address	5. Work Order/Contract/Invoice Number:
AVIATION CONTROLS INC. d/b/a PRECISION AVIATION CONTROLS 101 FREEDOM DRIVE INDEPENDENCE , KS 67301 UNITED STATES FAA Certificate : YNBR921L	9209881

6. Item	7. Description	8. Part Number	9. Quantity	10. Serial Number	11. Status/Work
1	FUEL HEATER PT6A	10552E 3032710	1 EA	WA23408	OVERHAULED

12. Remarks: Referencing manual No: 73-10-03 Revision: 16 Revision Date: DEC 15 2016
OVERHAULED IN ACCORDANCE WITH APPLICABLE CMM

TSN: UNK TSO: 0

Certifies that the work specified in Block 11/12 was carried out in accordance with EASA Part-145 and in respect to that work the component is considered ready for release to service under EASA Part-145 Approval Number:"EASA 145.6525".

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/mmm/yyyy):

14a. [X] 14 CFR 43.9 Return to Service [X] 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 Regulations, part 43 and in respect to that work, the items are approved for return to service.

14b. Authorized Signature:	14c. Approval/Certificate No.: YNBR921L
14d. Name (Typed or Printed): SUSAN THOMPSON 2638442	14e. Date (dd/mmm/yyyy): 06/Jun/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.

KTS
KEYSTONE TURBINE SERVICES
A PAG Company

885 FOX CHASE SUITE 111
COATESVILLE PA. 19320
1-610-268-6200
1-484-786-8680 fax

Customer:	MPAC Aviation Services	Date:	7/14/2023
Description:	Fuel Control	Model #:	DP-F2
Serial #:	C66799	MFG Part #	
Work Order #:	85018901-EA-FC	P/N #:	32444897-4
TSO IN	Unk.	P.O.#:	12077
TSO OUT	0.0		
Received date:	6/5/2023		

Reason for removal: Overhaul

Run as Rec'd test: Not required

Warranty granted:	Approved
	Denied
	N/A

Warranty Review Concurrence

T. Kline

Work Performed: Overhauled & Tested IAW Honeywell CMM 73-20-78 Rev.2 6/8/21

Parts Replaced:

Part Number	Quantity	Description	Reason for replacement
KTS-FCU3244897-KI	1	Overhaul Kit	Req @ Overhaul

For KTS. _____ Date: 7/14/2023

Action Aero
PO Box 22105
Charlottetown, PE C1A 9J2
Canada
Ph: (902) 370-3311, Fax: (902) 370-3313
info@actionaero.com

Tear Down/Inspection

Work Order #: W119291
Date Printed: 5/30/2023
Time: 1:58:04 PM
Page: 1

Cust PO: 012073
Alt Cust PO
Qty: 1
PN: 3019906/25536-4
Serial #: 9959512673
Descr: FLOW DIVIDER & DUMP VALVE
Mfg: TRIUMPH
ESN: PCE-PC1288
TSO UNK
TSN UNK
TSR UNK

Symptoms:

Reason Removed

Flow divider removed for overhaul

Receiving Inspection

Flow divider received with fittings loose

Faults:

Inspection Findings

No abnormal findings

Corrective Actions:

Work Performed

Overhauled IAW CMM

Action Aero
PO Box 22105
Charlottetown, PE C1A 9J2
Canada
Ph: (902) 370-3311, Fax: (902) 370-3313
info@actionaero.com

Tear Down/Inspection

Work Order #: W119285
Date Printed: 6/21/2023
Time: 12:31:28 PM
Page: 1

Cust PO: 012074 **PN:** 702801-5 **Descr:** MAIN ENGINE FUEL PUMP
Alt Cust PO **Serial #:** 001251 **Mfg:** ARGO-TECH
Qty: 1
ESN: PCE-PC1288 **TSO** UNK **TSN** UNK **TSR** UNK

Symptoms:

Reason Removed

Fuel pump removed for overhaul

Receiving Inspection

Fuel pump received with a shipping cover, and with fittings attached

Faults:

Inspection Findings

No abnormal findings

Corrective Actions:

Work Recommended

Overhaul in accordance to the CMM

Work Performed

Overhauled unit IAW CMM

PN	Description	Qty Needed	CD	Disposition	Status/Reason
93030-87	SEAL, STATIONARY	2	RPR	Issue	100%
AN6235-3A	FILTER ELEMENT, JT15D & PT6 FUEL PI	1	NE	Issue	100%

Action Aero
PO Box 22105
Charlottetown, PE C1A 9J2
Canada
Ph: (902) 370-3311, Fax: (902) 370-3313
info@actionaero.com

Tear Down/Inspection

Work Order #: W119287
Date Printed: 5/31/2023
Time: 10:03:17 AM
Page: 1

Cust PO: 012075
Alt Cust PO
Qty: 1
ESN: PCE-PC1288

PN: 8210-002-01
Serial #: 13039147

Descr: TURBOPROP GOVERNOR ASSEMBLY
Mfg: WOODWARD GOVERNOR

TSO UNK
TSN UNK
TSR UNK

Symptoms:

Reason Removed

Governor removed for overhaul

Receiving Inspection

Governor received with a shipping cover

Faults:

Inspection Findings

No abnormal findings.

Corrective Actions:

Work Recommended

Overhaul IAW CMM with the incorporation of SB 33531C.

Work Performed

Overhauled IAW CMM with the incorporation of SB 33531C.

PAC
PRECISION AVIATION CONTROLS

AVIATION CONTROLS INC.
d/b/a PRECISION AVIATION CONTROLS
101 FREEDOM DRIVE
INDEPENDENCE KS 67301 UNITED STATES
(620)331-8180 (620)331-6426 www.precisionaviationcontrols.com

INSPECTION REPORT

Close	:
Abnormal PH	:
Normal Risk	:
Technician	:
Inspector	:
Aircraft Number	:
A/C Position	:
TSN	: UNK
TSO	: UNK
TSR	:

W/O No. 9209881

P/N 10552E

S/N WA23408

For Customer	: PRIME TURBINES		
S.O. No.	: 9205241	Line No. : 1	

W/O Kind : [OVH] OVERHAULED

Cust P.O.	: MRO4242	P/N	: 10552E	Note/Lot	:
Our Ref	: JACOB GARRATT	Desc	: FUEL HEATER PT6A	Trace To	: PRIME TURBINES
Stock	:	S/N	: WA23408	Tag Date	:
Shop	: PAC Commercial	MFG	: STEWART WARNER SOUTH WIND CORP	Manual	: 73-10-03
Warr Claim	:	Qty	: 1 Cond As: OH	Revision	: 16 / Dec-15-2016
Completed P/N	: 10552E	S/N As	: WA23408	Into Bin Loc	: [w/h] 907 [Loc] COMPLETED

Company : 1	Division : 09	Department :	
Order Date : May-24-2023	Received Date : May-18-2023	Due Date :	Print Date : Jun-06-2023

Overhaul WORK ORDER No. 9209881

Manuals	Description	Manual Date	Revision No.	Revision Date	Current	Until
73-10-03	FUEL HEATER	Aug-01-1975	16	Dec-15-2016	☒	Feb-29-2024

Reported By Customer

CUSTOMER STATES OVERHAUL. RETURN SCRAP WITH UNIT.

Preliminary Insp

NO COMPONENT CARD.

SENT UNIT FOR PAINT.

Corrective Action

ASSEMBLED AND INSTALLED ALL CONSUMABLES.

PAINTED UNIT.

TESTED WITHIN LIMITS IN ACCORDANCE WITH APPLICABLE CMM.

Authorized Signature Susan Thompson Name : Susan Thompson Date : 6 June 23

PWC PT6A-114AAirworthiness Directives	Prime Turbine, LLC FAA CRS No: 5TPR585C

Updated:	08/01/2023	Name:	Brian Langeheine

Work Order # M5O1090

PCW	N/A	C/W	AD No:	Date	Description
PT6A-114A					
	X		2022-08-13	05/27/2022	Turbine Section (CT Vane)
	X		2014-17-08R1	6/5/2015	Compressor Turbine CT Blades
X			2014-11-05	8/5/2014	Containment Ring Modification
	X		2012-09-10	5/23/2012	First Stage Sun Gears
X			2002-23-13	12/31/2002	Turbine Exhaust Ducts
	X		2001-20-01	11/5/2001	Compressor Bleed Valve Assembly
	X		97-04-12	3/14/1997	Compressor Bleed-off Valve
INSPECTOR: Brian Langeheie					**DATE: 03/AUG/2023**

NOTE: This listing of FAA Airworthiness Directives may not always be up to date. Please refer to the FAA Web Site for the latest Airworthiness Directive information.

Abbreviations:		N/A	Not Applicable (model or part number)
PCW	Previously Complied With (found embodied)	C/W	Complied With (this shop visit)

PT6 Service Bulletin Log Sheet

Prime Turbines, LLC
FAA CRS No. 5TPR585C

WORK ORDER	M5O1090	MODEL	PT6A-114A
SERIAL NUMBER	PCE-PC1288	BUILD SPEC	750

S/Bs FOUND PREVIOUSLY INCORPORATED:

				SEE LOG	BOOK				

S/B'S INCORPORATED THIS VISIT:

1001R36	1002R31	1703R14							

I HEREBY CERTIFIY THAT THE ABOVE LISTED SERVICE BULLETINS HAVE EITHER BEEN FOUND PREVIOUSLY INCORPORATED BASED ON RECORDS RESEARCH OR WERE INCORPORATED ON THIS WORK ORDER IN ACCORDANCE WITH FEDERAL REGULATIONS.

Inspector:	Brian Langeheine	**Date:**	03/AUG/2023