



PT. SMART CAKRAWALA AVIATION

WORK ORDER

Form: SCA/MTC/030

Subject :	No.	WO/032-PK-SNE/VII/2023
Inspection 100 Hours / Annual and Add Task Insp. Due at 600 FH.	Date	26 JULI 2023
Reference :	A/C Reg.	PK-SNE MSN 1017
MP Pilatus PC-6 Issued 01. Rev. 00	Prepared By	TS
	Checked By	CI
	Approved By	TM

To : Engineer In Charge

Description :

1. Perform Inspection 100 Hours / Annual and Add Task Insp. Due at 600 FH.
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 :

Compliance Statement	Sign & Date Company Lic. No.: 5792/SCA 27 <i>[Signature]</i> 04/08/2023 (Engineer In Charge) WATTYONO	Signature <i>[Signature]</i> (Technical Manager)
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AIRCRAFT CHECK WORK SUMMARY
(Form: SCA/MTC/051)

DATE OF ISSUED	JO/WO #	TYPE OF MAINTENANCE	DATE OF ACCOMPLISHED	
26 JULI 2023	WO/032-SNE/VII/2023	100H/Annual Inspection	04 Aug 2023	
A/C Type		Mfg. Serial Number	A/C Registration	
PILATUS PORTER PC-6		1017	PK-SNE	
AIRCRAFT DATA				
Subject	Pos #	Serial Number (SN)	TTSN/TCSN	
Engine	#1	PCE-PG0568	599-47/845	
	#2	-		
Propeller/Rotor	#1	FY5100	599-47/8	
	#2	-		
Landing Gear	NLG		845	
	LH MLG		845	
	RH MLG		845	
PACKAGE COVERED				
No	Subject	Qty	Remark	
1	Non-Routine Card	6	✓	
2	Inspection Card	1	✓	
3	Work Order	1	✓	
4	Summary Inspection List	1	✓	
5	Material and Tool List	1	✓	
6	Escalation form	-		
7	CRS (SMI / Unscheduled Maintenance)	1	✓	
INSPECTION CARD (IC) LIST (Finding during maintenance)				
No	Taskcard Ref	Subject	Status Open Close	Name/ Sign & Stamp
<u>IC-001</u>		NIL		
<u>IC-002</u>				
<u>IC-003</u>				
<u>IC-004</u>				
<u>IC-005</u>				
<u>IC-006</u>				

<u>IC-007</u>					
<u>IC-008</u>					
<u>IC-009</u>					
<u>IC-010</u>					
<u>IC-011</u>					
<u>IC-012</u>					
<u>IC-013</u>					
<u>IC-014</u>					
<u>IC-015</u>					

Prepared by :
Technical Support

Dwi M.

Checked by :
Chief Maintenance

Dodit

Verified by :
Chief Inspector

Yanuar

Approved by :
Technical Manager

Istiono

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

WO Ref: WO/032-PK-SNE/VII/2023

NO.	TASK CARD NO.	DESCRIPTION	DATE	EST MHR	NAME	STAMP
1	APPENDIX	ENGINE GROUND RUN CHECK SHEET	04/2023 08	-	Wahyono	
2	APPENDIX	100 HOURS / ANNUAL INSPECTION - PILATUS	03/2023 08	-	Wahyono	
3	APPENDIX	FUEL INDICATING SYSTEM - ADJUSTMENT	04/2023 08	-	FEBRI HERMANWAN	
4	APPENDIX	FUEL SYSTEM UNDERWING TANK INSPECTION TRANSFER PUMP FILTERS	04/2023 08	-	FEBRI HERMANWAN	
5	APPENDIX	FUEL DISTRIBUTION SYSTEM - ADJUSTMENT TEST	04/2023 08	-	FEBRI HERMANWAN	
6	APPENDIX	WHEEL AND BRAKES INSPECTION	02/2023 08	-	FEBRI HERMANWAN	
7	NRC#01	200 HOURS - STARTER GENERATOR - BRUSHES CHECK FOR WEAR	03/2023 08	-	Wahyono	
8	NRC#02	200 HOURS - PROPELLER OVERSPEED GOVERNOR	03/2023 08	-	Wahyono	
9	NRC#03	400 HOURS - FUEL NOZZLE INSPECTION - CLEANING & TEST	03/2023 08	-	Wahyono	
10	NRC#04	600 HOURS - HP FUEL INLET SCREEN CLEANING	03/2023 08	-	Wahyono	
11	NRC#05	600 HOURS - HP FUEL PUMP COUPLING SHAFT - FRETTING CORROSION	03/2023 08	-	Wahyono	
12	NRC#06	600 HOURS - BLEED VALVE - INSPECTION/FUNCTIONAL TEST	03/2023 08	-	Wahyono	
13	SCA/MTC/023	EMERGENCY EQUIPMENT CHECK	04/2023 08	-	Wahyono	



PT. SMART CAKRAWALA AVIATION

CERTIFICATE RETURN TO SERVICE SCHEDULED MAINTENANCE INSPECTION (CRS-SMI)

A/C TYPE : PILATUS PORTER PC-6	TTSN : 599 : 47
A/C REG : PK-SNE	TCSN : 845
MSN : 1017	DATE : 4 August 2023

TYPE OF INSPECTION : 100 HOURS / ANNUAL INSPECTION
DUE AT : 600 HOURS
REF : MP Pilatus PC-6 Issued 01. Rev. 00

EXCEPTION

NO EXCEPTION

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
WAHYONO	AIRFRAME & POWER PLANT	5992/SCA 27		4 / 08 2023
N/A	EIRA	N/A	N/A	

THE NEXT DUE TYPE OF INSPECTION : 100 HOURS / ANNUAL INSPECTION
DUE AT : 700 : 00

Form: SCA/MTC/049



ENGINE GROUND RUN CHECK SHEET - PT6A-27 ENGINE WITH FOUR BLADE PROPELLER (HARTZELL STC SA377CH)



PILATUS



WORK ORDER NO.		: WO/032-SNE/VII/2023	
Aircraft Registration	PK-SNE	Aircraft Total Hours	599:47
Aircraft Serial No.	1017	Aircraft Total Landings	845
Engine Serial No.	PCE-PG0568	Engine TSN / TSO	599:47
Propeller Serial No	FY5100	Propeller TSN / TSO	599:47
Ambient Temp	40 °C	FBP (Field Barometric Pressure)	299.2 In.Hg
Date	04-08-2023.	Time	16.00 LT.
Mechanic / Engineer	Wahyono	Authorized Engineer	Pabri Hermalawan
Reason For Ground Run		Maintenance 100 Hrs.	

Checks to be carried out. No:	1 2 4* 7 8 10 11 12 13 14 15 every 100 Hrs In additional check 9 in every interval 200 Hrs
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Engine Ground Run Check Frequency

Check Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Each 100 Hrs/ Annual	x	x		x			x	x		x	x	x	x	x	x
Each 200 Hrs									x						
Pre-Complete Overhaul	x	x	x	x		x	x	x	x	x	x	x	x	x	x
After Short Term Storage															x
After Long Term Storage	x	x	x	x		x	x	x	x	x	x	x	x	x	x

In additional the following check must be carried out after Installation, Repair and Adjustment of any of the following components.

Check Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Engine Installation	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Propeller Installation		x	x	x	x			x							
Fuel Control Unit	x				x	x	x	x		x	x				
HP Fuel Pump						x	x								
Fuel Nozzle						x	x								
Starting Flow Control	x				x		x	x							
Emer Fuel Control Actuator											x				
Prop Governor	x		x	x	x		x	x							
Prop Overspeed Governor									x						
Compressor Bleed Valve						x	x								
Engine Controls	x			x	x			x	x						
Low Pitch Warning Switch				x											



MAINTENANCE PROGRAM **PILATUS PORTER PC6**

Appendix – Engine Ground Run Check Sheet

Suction Components

x

Use this sheet's to record engine run result, use in conjunction with task cards.

NO.	CHECK	TARGET	ACTUAL
ENGINE START			
	ITT (Troubleshoot If More Than 925°C)	Max. 1090 °C	586 °C
	Cabin Heat	OFF	✓ OK?
1	Low Idle (Minimum Governing) Speed	51 - 53 % Ng	51.9 % Ng
	Fuel Pressure / Boost Pump OFF	Light out or 25 ± 5 psi	✓ OK?
	ITT		580 °C
	Oil Pressure		85 psi
	Oil Temperature		69 °C
2	Propeller Governor		
	Maximum Np	1980 - 2000 rpm (90.0 - 90.9 %)	1990 rpm
	Py Disconnected		995 % Ng
	Py Connected		994 % Ng
	Difference	Maximum 0.3% Ng	0.1 %
	Airbleed Link at Minimum	1900 - 1950 rpm (86.4 - 88.6 %)	1920 rpm
	Aircraft with SB 161:		
	Propeller Control Lever at Minimum	1880 - 1900 rpm (85.5 - 86.4 %)	1890 rpm
3	Propeller Fine Pitch Setting (High Idle)		
	Target Torque	psi	64 psi
	Power Lever to Give Np	1694 rpm (77 %)	1840 rpm
	Basic High Idle	68 - 72% Ng	72 72 % Ng
4	Propeller Low Pitch Warning		
	PCL from Reverse to Detent	Light OFF	
		1 to 2 mm before Detent	1 mm
5	Minimum Pitch in Flight		
	Ng	67 - 73 %	% Ng
	Np	1800 - 1950 rpm (81.8 - 88.6 %)	rpm
	Torque	4 - 7 psi	psi
6	FCU Maximum Governing Speed (Ng)	97.1 % Ng	% Ng
	(Trim stop deployed)		

71, 8

NO.	CHECK	TARGET	ACTUAL
7	Engine Performance	Ref: AMM 71-00-00	
	Target Torque Pressure	41 psi	41 psi
	Fuel flow (Actual minus 23 lb / hr or 3.4 gal / hr)	324 lb / hr	51 GPH lb / hr
	Target Ng	95.6 % Ng	94.9 % Ng
	Maximum ITT	706 °C	615 °C
8	Reverse Power Setting Np Torque	1880 - 1925 rpm (85.5 - 87.5 %) psi	1850 1890 rpm 25 psi
9	Propeller Overspeed Governor		
	Test Lever Selected to:		
	TEST NORMAL	1880 - 1920 rpm (85.5 - 87.3 %) 1980 - 2000 rpm (90.0 - 90.9 %)	1880 rpm 2000 rpm
10	Acceleration 64 % - 90 % Ng	2.5 - 4 secs	3 secs
	Deceleration 85% to 60% Ng or low idle speed (Whichever comes first)	Maximum 6-12 sec (Dependent upon altitude)	6 secs altitude (kFt)
	Manual Override (MOR) (Aircraft with SB 164)		
	Use Toggle Switch In Small Increment (REF. to WARNINGS and CAUTIONS in Check 11)	Increase to 15% above Idle (Max Increase less than 4 % per Second) Decrease To Idle (Max Decrease less Than 4% per Second)	✓ OK? ✓ OK?
12	Oil Pressure	80 - 100 psi	90 psi
13	Generator (Ref. 24-30-00)	Online by 60% Ng	60 % Ng
14	Suction (High Idle)	4.5 - 5.2 in. Hg	1 1/4 in. Hg
15	Engine Rundown Time After Stop	MIN 30 secs	37 secs
Additional			
Generator Check (High Idle Under Load)		27.75 - 28.25 VDC	28.2 VDC
After Engine Run			
Check Eng. For Signs of Fuel/Oil/Air Leaks		NO LEAKS FOUND	✓ OK?
Safety All Screws, Bolts, Locknuts as Req.			✓ OK?



EMERGENCY EQUIPMENT LIST INSPECTION & MONITOR

**PT. SMART CAKRAWALA
AVIATION
DEPARTMENT TEKNIK
Form: SCA/MTC/023**

DATE : 04-08-2023

A/C REG : PK-SNE

**A/C TYPE : PILATUS PORTER
PC6**

CHECKER : Wahyuono

SIGN:

No.	Description	P/N	S/N	Next Insp.	Remarks
1	Pilot Life Vest				
2	Co-Pilot Life Vest				
3	Pax Life Vest				
4	Pax Life Vest				
5	Pax Life Vest				
6	Pax Life Vest				
7	Pax Life Vest				
8	Pax Life Vest				
9	Pax Life Vest				
10	Pax Life Vest				
11	Pax Life Vest				
12	Pax Life Vest				
13	First Aid Kit		L1110820E	Aug 2023	Due
14	Crash Axe Installed		-		Secured
15	Fire Extinguisher	BA5101SR-53	120655	Feb 2024	
16	Life Raft (If Installed)	-			
17	Survival Kit (If Installed)	63026-101	182347	Jul 2023	Due
OTHERS					
	Flash Light	-	-		



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

1. JO/WO #	2. DATE	3. MTC TYPE	4. A/C REG/MSN
WO/032-SNE/VII/2023	26 JULI 2023	200 HOURS - CHECK	PK-SNE/1017
5. CARD #	6. ATA SPEC	7. TRADE	8. STA
01	24		LNU
9. ZONE	10. PANEL		

11. DESCRIPTION

STARTER GENERATOR - BRUSHES CHECK FOR WEAR

REFERENCE	☐	☒ AMM 24-31-11	☐ OTHER
RII (*)	☐ Y	☒ N	MHR:

12. RESULT

Approx Remaining 40%

Performed at A/C TT : 509:47 A/C TC /LDG : 045

FINDING	☐ Y	☐ N	ACT MHR:	DATE/TIME (DD/MM/YY)
INSPECTION CARD (IC) #			03	-28 2023

13. PARTS REQUIRED

DESCRIPTION	PART NO	QTY	REMARK	
			STOCK	STATUS

14. TOOLS REQUIRED

DESCRIPTION	PART NO / MODEL	NEXT CALIBRATION DATE	STATUS



10

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

1. JO/WO #	2. DATE	3. MTC TYPE	4. A/C REG/MSN
WO/032-SNE/VII/2023	26 JULI 2023	OPERATIONAL CHECK	PK-SNE/1017
5. CARD #	6. ATA SPEC	7. TRADE	8. STA
02	71		CWU
9. ZONE	10. PANEL		

11. DESCRIPTION

PERFORM PROPELLER OVERSPEED GOVERNOR

REFERENCE	☐	☒ AJM Ch. 71-00-00	☐ OTHER
Rll (*)	☐ Y	☒ N	MHR :

12. RESULT

Performed, with Good parameter

Performed at A/C TT : 599:47 A/C TC /LDG : 845

FINDING	☐ Y	☒ N	ACT MHR :	DATE/TIME (DD/MM/YY)
INSPECTION CARD (IC) #				04 88 2023

13. PARTS REQUIRED

DESCRIPTION	PART NO	QTY	REMARK	
			STOCK	STATUS

14. TOOLS REQUIRED

DESCRIPTION	PART NO / MODEL	NEXT CALIBRATION DATE	STATUS



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

1. JOWO #	2. DATE	3. MTC TYPE	4. A/C REG/MSN
WO/032-SNE/VII/2023	26 JULI 2023	CLEANING & TEST	PK-SNE/1017
5. CARD #	6. ATA SPEC	7. TRADE	8. STA
03	73		LNU
9. ZONE	10. PANEL		

11. DESCRIPTION			
FUEL NOZZLE INJECTION - CLEANING & TEST			
REFERENCE	☐ COMPONENT MANUAL	☒ MM ENGINE PTBA-27	☐ OTHER
RII (*)	☐ Y	☒ N	MHR :

12. RESULT		MECH	ENG	INSP (*)
Performed Cleaning & Test Result Satisfactory Performed at A/C TT : 599:47 A/C TC /LDG : 845				
FINDING	☐ Y ☒ N	ACT MHR :		
INSPECTION CARD (IC) #		08	-28	2023

13. PARTS REQUIRED				
DESCRIPTION	PART NO	QTY	REMARK	
			STOCK	STATUS

14. TOOLS REQUIRED			
DESCRIPTION	PART NO / MODEL	NEXT CALIBRATION DATE	STATUS



12

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

1. JO/WO #	2. DATE	3. MTC TYPE	4. A/C REG/MSN
WO/032-SNE/VII/2023	26 JULI 2023	600 HOURS - CLEANING	PK-SNE/1017
5. CARD #	6. ATA SPEC	7. TRADE	8. STA
04	73		LNU
9. ZONE	10. PANEL		

11. DESCRIPTION			
HP FUEL INLET SCREEN CLEANING			
REFERENCE	☐ COMPONENT MANUAL	☒ EMM 73-10-02	☐ OTHER
R/II (*)	☐ Y	☒ N	MHR :

12. RESULT		MECH	ENG	INSP (*)
Performed Result Good Condition Performed at A/C TT : 599:47 A/C TC/LDG : 845			QES	
FINDING	☐ Y	☒ N	ACT MHR :	
INSPECTION CARD (IC) #		03	08	2023

13. PARTS REQUIRED				
DESCRIPTION	PART NO	QTY	REMARK	
			STOCK	STATUS

14. TOOLS REQUIRED			
DESCRIPTION	PART NO / MODEL	NEXT CALIBRATION DATE	STATUS



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

1. JOWO #	2. DATE	3. MTC TYPE	4. A/C REG/MSN
WO/032-SNE/VII/2023	26 JULI 2023	600 HOURS - INSPECTION	PK-SNE/1017
5. CARD #	6. ATA SPEC	7. TRADE	8. STA
05	73		LNU
9. ZONE	10. PANEL		

11. DESCRIPTION

HP FUEL PUMP COUPLING SHAFT - FRETING CORROSION

REFERENCE	☐ COMPONENT MANUAL	☒ EMM 73-10-02	☐ OTHER
RII (*)	☐ Y	☒ N	MHR :

12. RESULT

Performed Result Good Condition Performed at A/C TT : 539:47 A/C TC/LDG : 845	MECH	ENG	INSP (*)
		log	
FINDING	☐ Y	☐ N	ACT MHR :
INSPECTION CARD (IC) #		03	08 2023

13. PARTS REQUIRED

DESCRIPTION	PART NO	QTY	REMARK	
			STOCK	STATUS

14. TOOLS REQUIRED

DESCRIPTION	PART NO / MODEL	NEXT CALIBRATION DATE	STATUS



DOCUMENT FORM BORESCOPE INSPECTION FORM

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Engine Borescope Inspection

Job No: WO/032-SNE/VII/2023

<u>Engine Serial Number</u>	<u>Date</u>	<u>Base / Location</u>	<u>Aircraft Registration</u>
PCE-PG0568	05 AUGUST 2023	MALINAU	PK-SNE
<u>Aircraft Total Time</u>	<u>Aircraft Total Cycle</u>	<u>Reason For Borescope</u>	
599:47 Hours	845 Cycle	400 HOURS INSPECTION	

Note:

Record any discrepancies found during inspection, and/or take photographic evidence.

If None, then write No Findings. If you find defects, please quote EMM (Engine Maintenance Manual) Reference and Limitations.

Item	Work Description	SIGN	STAMP
1	Remove fuel manifold adapter as necessary (Ref. 73-10-05).	<i>Be</i>	
2	Perform inspection of the First Stage Compressor. Defects: RESULT FOUND NO DEFECT <u>If defects found, quote MM Limitation and References :-</u>	<i>Be</i>	

Photo of First Stage Compressor 1st Quadrant



Photo of First Stage Compressor 2nd Quadrant

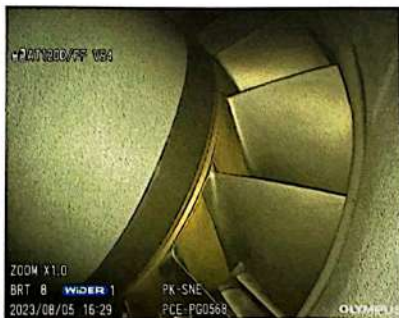


Photo of First Stage Compressor 3rd Quadrant



Photo of First Stage Compressor 4th Quadrant



3

Perform inspection of Combustion Chamber Liner Assembly.

Defects:

Localized burning and carbon build up of the cooling ring

If defects found, quote MM Limitation and References :

PT6A-27 EMM 72-40-01 Para. 6.B (Acceptable Conditions)

SIGN

STAMP




Photo of Combustion Chamber 1st Quadrant



Photo of Combustion Chamber 2nd Quadrant





DOCUMENT FORM BORESCOPE INSPECTION FORM

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Photo of Combustion Chamber 3rd Quadrant



Photo of Combustion Chamber 4th Quadrant



4

Perform Inspection of CT-Stator assembly.
Defects:

RESULT FOUND NO DEFECT

If defects found, quote MM Limitation and References :

SIGN

STAMP



Photo of CT Stator 1st Quadrant



Photo of CT Stator 2nd Quadrant





DOCUMENT FORM BORESCOPE INSPECTION FORM

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Photo of CT Stator 3rd Quadrant



Photo of CT Stator 4th Quadrant



5

Perform inspection of CT-Blades and shroud segments.

Defects:

RESULT FOUND NO DEFECT

If defects found, quote MM Limitation and References :

SIGN

STAMP



Photo of Leading Edge CT-Blades 1st Quadrant



Photo of Leading Edge CT-Blades 2nd Q

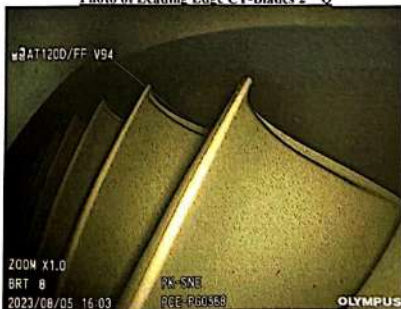


Photo of Leading Edge CT-Blades 3rd Quadrant

Photo of Leading Edge CT-Blades 4th Quadrant


6

Perform inspection CT-Blades Trailing Edge

Defects:
RESULT SATISFACTORY FOUND NO DEFECT
If defects found, quote MM Limitation and References :

SIGN

STAMP



Photo of CT-Blades Trailing Edge 1st

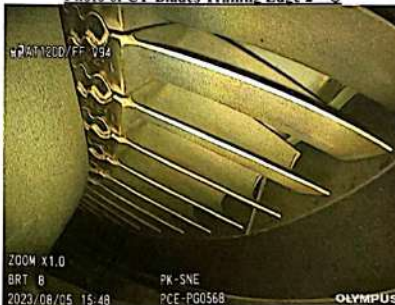
Photo of CT-Blades Trailing Edge 2nd Q


Photo of CT-Blades Trailing Edge 3rd Q

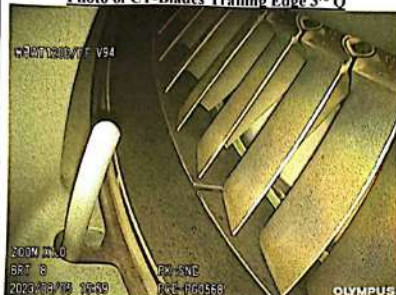


Photo of CT-Blades Trailing Edge 4th Q



7

Perform inspection of PT-Blades
Defects:

RESULT FOUND NO DEFECT

If defects found, quote MM Limitation and References :

SIGN

STAMP




Photo of PT-Blades 1st Q



Photo of PT-Blades 2nd Q



Photo of PT-Blades 3rd Q

Photo of PT-Blades 4th Q


		SIGN	STAMP
8	Install fuel manifold adapter(s) (Ref. 73-10-05).		
9	Perform fuel leak check post fuel nozzle installation		

BORESCOPE PERFORMED BY

Name: WAHYONO

Signature :



Stamp :

