PT. SMART CAKRAWALA AVIATION

WORK ORDER

Form: SCA/MTC/030

Subject : **Engine Replacement**	No.	WO/058-SNV/X/2023
	Date	12 Oct 2023
	A/C Reg.	PK-SNV C208B-5551
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 :

Compliance Statement	Sign & Date Company Lic. No.:	Signature
COMPLIED	(Engineer In Charge)	(Technical Manager)

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

DATE OF ISSUED	JO/WO #	TYPE OF MAINTENANCE	DATE OF ACCOMPLISHED
12 Oct 2023	WO/058-SNV/X/2023	Replacement	19 Oct 2023

A/C Type	Mfg. Serial Number	A/C Registration
C208B	C208B-5551	PK-SNV

AIRCRAFT DATA

Subject	Pos #	Serial Number (SN)	TTSN/TCSN
Engine	#1	PCE-VA0607	2553 :07 / 9386.
	#2	-	
Propeller/Rotor	#1	181160	4199 :10 595 : 29.
	#2	-	
Landing Gear	NLG		4199 :10 / 6710
	LH MLG		4199 :10 / 6710
	RH MLG		4199 :10 / 6710

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

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

WO Ref: WO/058-SNV/X/2023

NO.	TASK CARD NO.	DESCRIPTION	DATE	EST MHR	NAME	STAMP
1	NRC-01	ENGINE ASSY REPLACEMENT REMOVED P/N: PT6A-140 S/N: PCE-VA0607 INSTALLED P/N: PT6A-140 S/N: PCE-VA0567	19/10/23			
2	APPENDIX B05	COMPASS SWING	19/10/23			

MAINTENANCE PROGRAM
CESSNA 208/208B

Appendix B05 – Magnetic Compass Calibration

Reg. Mark : PK - SNV
Date : 6710
MSN : C208B - 5551
Station : NABIRE
TSN / CSN : A999 : 10
WO No. : WO/058- SNV/X/2023

NO.	TASK	SIGNATURE	
		ENGINEER SIGN&STAMP	RII SIGN&STAMP
01	Magnetic Compass Functional Check. Refer to AMM 34-21-00.		
02	Record the Magnetic Compass functional check result, calculate and make an entry in form SCA/MTC/026.		

PERSONNEL PARTICIPATING IN THIS INSPECTION

NAME	POSITION	SIGNATURE	LICENSE NUMBER
Benny Pranata	ENGINEER		3657.

RETURN TO SERVICE

The work recorded above has been carried out in accordance with the requirements of the Civil Aviation Safety Regulation for the time being in force and in that respect the aircraft is consider fit for Release to Service.

Name : Wahyono
Place/Date : Nabire, 19-10-2023.
Sign & Stamp :

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

1. JO/WO #	2. DATE	3. MTC TYPE	4. A/C REG/MSN
WO/058-SNV/X/2023	19 OCT 2023	REPLACEMENT	PK-SNV/208B-5551
5. CARD #	6. ATA SPEC	7. TRADE	8. STA
#001	80		
9. ZONE	10. PANEL		
ENGINE			

11. DESCRIPTION

ENGINE ASSY REPLACEMENT
REMOVED
P/N: PT6A-140
S/N: PCE-VA0607
INSTALLED
P/N: PT6A-140
S/N: PCE-VA0567

REFERENCE	[X] EMM Ch. 72-00-00	[ ] AMM Ch	[ ] OTHER
RII (*)	[X] Y	[ ] N	MHR :

12. RESULT

PERFORMED ENGINE REPLACEMENT
ENGINE PT6A-140 REV. 50
AIRFRAME C208B REV. 39

Performed at A/C TT : 9199:10 A/C TC /LDG : 9710

MECH	ENG	INSP (*)
		RII 11

FINDING	[ ] Y	[ ] N	ACT MHR :	DATE/TIME (DD/MM/YY)		
INSPECTION CARD (IC) #				19	10	2023

13. PARTS REQUIRED

DESCRIPTION	PART NO	QTY	REMARK	
			STOCK	STATUS
SES WO /058-SNV / X/2023	NIL	-	✓	✓

14. TOOLS REQUIRED

DESCRIPTION	PART NO / MODEL	NEXT CALIBRATION DATE	STATUS

Appendix B03 – PT6A-140 Engine Run Performance Sheet

Reg. Mark : PK - SNU   WO/FML No. : WO/058 - SNU / X / 2023

PRE – INSPECTION	
Location	NABIRE
Date	19 OCT 2023
Cycle	
Filed Barometric	1010
OAT	33
Altitude	30 FT

POST – INSPECTION	
Location	NABIRE
Date	19 OCT 2023
Cycle	
Filed Barometric	1009
OAT	28
Altitude	30 FT

PRE – INSPECTION	Target	Actual
Tq	2397	2219
Np	1900	1890
ITT	841 °C	835 °C
Ng	102.7 %	99.6 %
Wf	590	519
Oil Press		90 °C
Oil Temp		72 °C
Start Temp		720 °C

POST – INSPECTION	Target	Actual
Tq	2397	2397
Np	1900	1890
ITT	839 °C	839 °C
Ng	102.7 %	100.0 %
Wf	578	541
Oil Press		98 PSI
Oil Temp		63 °C
Start Temp		707 °C

Engine Run Up Checks

Inertial ✓ EPL ✓ OVG ✓ Stby Alt ✓ BOV ✓ Brake ✓ Randown ✓

NOTE:
1. Brake system at Torque 2000 ft lbs.
2. Inertial Separator at Torque 400 ft lbs.
3. EPL check can't exceed 4% Ng per second.
4. Standby Alt at 80% Ng.
5. Low idle at 53.5 - 57% 40Amps.
6. High idle at 64 - 66% Ng 40Amps.

Engine Performance Target Table (Cessna C208B EX)

OAT (°C)	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
Tq (ft lbs)	2397	2397	2397	2397	2397	2397	2397	2397	2397	2397	2397	2397	2397	2397	2397
Np	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
ITT (°C)	835	837	839	841	841	841	841	841	841	842	843	844	846	846	845
Ng (%)	102.7	102.7	102.7	102.7	102.7	102.7	102.7	102.5	102.6	102.6	102.6	102.6	102.6	102.6	101.5
WF (PPH)	578	578	578	578	578	578	578	570	565	565	560	560	555	548	548

Note:
1. Make sure that inertial separator in normal condition, no bleed air extracted from the engine and air condition OFF.
2. This table only applies to altitude 0-500 feet MSL. For higher altitude, refer to EMM 72-00-00.
3. Max fuel flow is 580 lb/hr fuel flow is not more than 15 lbs/hr higher than the value shown in table.
4. If parameters are outside the target performance table to EMM chapter 71-00-00.

REMARKS:
Low Idle : 57.0 %
High Idle : 64.8 %
At Torque 2200, ITT - 26
ITT 826 yellow band
HIGH ITT

PERFORMED BY			
Name	Sign & Stamp	Date	Location
Dewa Pratama	[signature, stamp]	19/OCT/2023	NABIRE

Aircraft Registration: **PK-SNV**

WO# Nr: **WO/058-SNV/X/2023**

Additional Work Sheet

Engine Replacement

Parts Used Sheet

Special Tool Used

No.	Description	Due Date	Engineer
1	TORQUE WRENCH : P/N RPS01 MMMM	[illegible] 2024	[signature]
2	TORQUE WRENCH : P/N : TH-0250	NOV 2023	[signature]
3	TORQUE WRENCH : P/N : KW 6102971	SEPT	[signature]
4.	OIL PULLER.	O/C	[signature]
5	PROPELLER PULLER.	O/C	[signature]
6	ENGINE SLING	O/C	[signature]
7.	COMPASS SWING P/N 1686-REV S/N 7518273/05	NOVEMBER 2024	[signature]

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Additional Work Sheet
Engine Replacement

Parts Used Sheet

Aircraft Registration: **PK-SNV**

WO# Nr: **WO/058-SNV/X/2023**

Part Used

Date	Part Nr.	Serial Nr.	Description	Quantity	Engineer
14-OCT-2023	ENGINE REPLACEMENT KIT		ENGINE REPLACEMENT KIT	1 EA	DENIAR
15-OCT-2023	EAST MAN TURBO OIL		EASTMAN TURBO OIL	12 QUART	NINDO
14-OCT-2023	MB3248/2-904		O-RING	1EA	DENIAR
14-OCT-2023	A1637-72		O-RING PROP	1EA	NINDO
14-OCT-2023	MS28775-022		O-RING	1EA	DENIAR
14-OCT-2023	MS24665-132		COTTOR PIN	1DEA	NINDO
14-OCT-2023	MIL W-6-632		PLASTILUBE	1EA	DENIAR
14-OCT-2023	A1639-32		NUT PROP	8 EA	NINDO

PT. SMART CAKRAWALA AVIATION

CERTIFICATE RETURN TO SERVICE

SCHEDULED MAINTENANCE INSPECTION
(CRS-SMI)

A/C TYPE	: CESSNA 208B	TTSN	: 4199 : 10
A/C REG	: PK-SNV	TCSN	: 6710
MSN	: C208B-5551	DATE	: 19-09-2023

TYPE OF INSPECTION : ENGINE REPLACEMENT
DUE AT : 4000 HOURS ON STE 4200 HOURS
REFF : MP 208/208B ISSUED 01
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
[illegible]	AIRFRAME & POWER PLANT	9688/026		19/09/2023
	EIRA			

THE NEXT DUE TYPE OF INSPECTION : ENGINE REPLACEMENT
DUE AT : 4000 HRS. ENGINE

Form: SCA/MTC/049

ENGINEERING ORDER

015/EO/TEK-TS/X/2023

REMOVAL & INSTALLATION OF ENGINE ASSY PT6A-140 ON CESSNA 208B

PT. SMART CAKRAWALA AVIATION

Prepared	Checked	Approved
Technical Support	**Chief Inspector**	**Technical Manager**
Signature:	Signature:	Signature:
Name: Dwi M.	Name: Yanuar A. Fatah	Name: Istiono
Date: 12 Oct 2023	Date: 12 Oct 2023	Date: 12 Oct 2023

SMART AVIATION
ENGINEERING ORDER

No. EI:
015/EO/TEK-TS/X/2023

Rev. No. :
ORIGINAL

Date Issued :
October 12, 2023

Task Description :

INSTALLATION OF ENGINE ASSY PT6A-140 ON CESSNA 208B

Data Reference :

- **Model 208 Series Maintenance Manual Revision 39, Revision Date Mar 1, 2023 Chapter 71 Power Plant – Maintenance Practices**

Aircraft Type :

CESSNA 208B WITH ENGINE MODEL PT6A-140

SMART AVIATION
ENGINEERING ORDER

1. Description.

This EO is issued, to perform removal and installation checklist powerplant maintenance practices the PT6A-140 engine on Cessna 208B.

2. Aircraft Effectivity.

REGISTRATION	SERIAL NUMBER
PK-SNV	208B-5551

3. Compliance

The Engine model PT6A-140 have TBO 4000 Hours, do removal and installatiob 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.

SMART AVIATION
ENGINEERING ORDER

6. Material.

3074153-01	PROPELLER GOVERNOR
A 1633-72	O-RING HUB TO PROPELLER SHAFT
A 1639-32	NUT
B 5096	SPACER
B 5121	FEEDBACK ASSY
MS 206685	GASKET PROPELLER OVER SPEED GOVERNOR
206684G or 303952	GASKET PROPELLER GOVERNOR
AN 4044-1	GASKET STAR-GEN
S 3346-1	GASKET PROPELLER TACHOMETER
S 3346-1	GASKET NG TACHOMETER
S 3346-1	GASKET STBY ALTERNATOR
S 3346-1	GASKET AC COMPRESSOR DRIVE UNIT
AN363-720	NUT
MS24665-302	COTTER PIN MOUNT BRACKET TO MOUNT RING
VSF1015N12B	SEAL CONICAL
9910333-1	ELASTOMER
MS24665-302	COTTER PIN
MS24665-134	COTTER PIN
MS24665-86	COTTER PIN
3007342	GASKET
S2808/AE3663	HOSE OIL
MIL PRF 83483C	LUBRICANT FOR THREAD PROPELLER
MIL W-G-632	LUBRICANT FOR COMPRESSOR DRIVE UNIT, PLASTILUBE
2380	ENGINE OIL

7. Special Tool Required.

Propeller Special tool D-5945 1 SET

7/8 inch special tool 1 SET

MASTER COMPASS

8. Publication Affected.

None.

SMART AVIATION
ENGINEERING ORDER

9. Accomplishment Instructions.

C208B ENGINE REMOVAL

Date	: 14-Oct-2023	Work Number	: WO/058-SNV/X/2023
Part No. Engine	: PT6A-140	A/C Total Hours	: 4199:10
Ser. No. Engine	: PCE-VA0607	A/C Total Landings	: 6710
Engine Time	TSN:	TSO: N/A	
	CSN:	CSO: N/A	

Removed from A/C Reg. : PK-SNV

Description	Eng.	RII	Remarks
A. REMOVE ENGINE (Refer to Figure 201 and Figure 202)			
CAUTION: Chock main wheels and place a tailstand under tailcone before attempting engine removal.			
1. Remove external electrical power from the airplane.			
2. Pull fuel firewall shutoff control out (off).			
3. Remove the cowling components as follows. Refer to Chapter 71, Engine Cowling and Nose Cap - Maintenance Practices: (a) The upper cowling doors. (b) The lower cowling panels. (c) The right nose cap.			
4. Use the filter drain to drain the residual fuel from lines and fuel filter. Refer to Chapter 28, Fuel Lines, Valves and Filters - Maintenance Practices.			
5. Remove the fuel supply hose at the fuel heater. Refer to Chapter 73, Oil-to-Fuel Heater - Maintenance Practice section of the Pratt and Whitney PT6A-140 Maintenance Manual P/N 3075742 found in the Introduction List of Publications.			
6. Remove the fuel motive flow hose at the motive flow shut off valve. Refer to Chapter 73, Fuel Control Unit - Maintenance Practices section of the Pratt and Whitney PT6A-140 Maintenance Manual P/N 3075742 found in the Introduction List of Publications.			
7. Remove the oil cooler. Refer to Chapter 79, Oil Distribution - Maintenance Practices (PT6A-140).			

SMART AVIATION
ENGINEERING ORDER

8	Remove top cowl center panel assembly and nosecap. Refer to Chapter 71, Engine Cowling and Nose Cap - Maintenance Practices		
9.	Remove the propeller. Refer to Chapter 61, Propeller (Hartzell) Maintenance Practices.		
10.	Disconnect and remove propeller speed control cable. Refer to Chapter 76, Quadrant Assembly And Controls - Maintenance Practices.		
11.	Remove the left nose cap/induction air duct/inertial air separator. Refer to Chapter 71, Inertial Air Separator - Maintenance Practice		
13.	Disconnect the cabin heater bleed air line at the flow control valve. Chapter 21, Compressor Bleed Air Heater - Maintenance Practices		
14.	Disconnect the bleed air hose at mixing air valve. Chapter 21, Compressor Bleed Air Heater - Maintenance Practices		
15.	Remove the starter/generator cooling air hose from starter/generator. For the 300 Amp Starter/Generator refer to Chapter 80, 300 AMP Starter/Generator Cooling Air Duct - Maintenance Practices. For the 200 Amp Starter/Generator refer to Chapter 80, Starter/Generator Cooling Air Blast Tube - Maintenance Practices		
16.	Remove the oil pressure switch supply hose. Refer to Chapter 79, Oil Pressure Switch - Maintenance Practices		
17.	Remove engine fire detector wiring harness. Chapter 26, Fire Detection System - Maintenance Practices		
18.	Disconnect electrical wiring connectors and ground wires at the following equipment locations: • Battery Connector (PN004) (aft right side of engine) • Prop Overspeed Valve Connector (PN041) (left front of engine) • NP Speed Tach (PN033) (right front of engine) • Cabin Heat Bleed Air Valve connector (PN043) (lower right side of engine) • Oil Pressure Switch (PN030) (right side on engine truss). • Oil Temperature Sensor connector (PN031) (right rear of engine) • NG Speed Tach (PN034) rear, (lower right side of engine) • Starter Generator Connector (PN002) (center top of engine accessory case) • Ignition Exciter Connector (PN040) (right engine mount truss) • Fuel Flow Connector (PN032) (rear, lower right side of engine) • Torque Transducer (PN038) (right engine mount truss)		

SMART AVIATION
ENGINEERING ORDER

• RGB Chip Detector (PN035) (right engine mount truss) • Engine ground straps airplane frame connections.			
19. Diconnect the engine power control cables at fuel control unit. Refer to Chapter 73, Fuel Control Unit - Maintenance Practices section of the Pratt and Whitney PT6A-140 Maintenance Manual P/N 3075742 found in the Introduction List of Publications.			
20. Remove torque meter pressure and vent lines at forward upper right side of engine mount truss. Refer to Chapter 77, Wet Torque Indicating System - Maintenance Practices (PT6A-140).			
21. Connect hoist sling to forward and aft lifting brackets and connect sling to engine hoist.			
22. Raise hoist to just support weight of engine and remove nuts and bolts at each of four corners of engine mounting ring.			
23. Make sure that all wiring and lines are free, then carefully move hoist and engine forward to clear engine mount truss.			
24. If engine is to be returned for overhaul or replaced refer to Prepare Engine to Send for Service.			

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

SMART AVIATION
ENGINEERING ORDER

C208B ENGINE INSTALLATION

Date : 14-OCT-2023 Work Number : WO/058-SKN/X/2023

Part No. Engine : PT6A-140 A/C Total Hours : 4199:10

Ser. No. Engine : PCE-VA0567 A/C Total Landings : 6710

Engine Time TSN: 2553:70 H TSO: N/A

CSN:9386 CSO: N/A

Installed on A/C Reg. : PK-SNV

Description	Eng.	RII	Remarks

25.INSTALL ENGINE (Refer to Figure 201 and Figure 202).

1. If the engine is new or was at manufacturer for service, install engine components. Refer to Engine Build-Up.			
2. 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)			
3. Install engine mount brackets, elastomers, and engine mount ring. Refer to Chapter 71, Engine mount – Maintenance Practices.			
4. Connect the lifting hoist sling to forward and aft lifting brackets on engine and lift engine in its correct position forward of engine mount.			
5. Make sure that all engine lines and equipment are clear.			
6. Lubricate the engine mount bolts with MIL-PRF-81322G Grease, before you install them to prevent corrosion.			
7. Make sure that the threads of bolts are covered during application of grease. Lubrication on threads can alter the torque reading.			
8. Move the hoist and engine aft to align the engine mount ring holes with the holes in the engine mount truss.			
9. Install the mount bolts and torque the bolt/nuts to 480 to 690 inch-pounds. a. Remove the hoist and sling			
10. Connect torquemeter pressure and vent lines at upper left Firewall a. Do a leak test of the torquemeter pressure and vent lines. Refer to Chapter 77, Wet Torque indicating System – Maintenance Practices			

SMART AVIATION
ENGINEERING ORDER

11. Connect engine power controls at fuel control unit. (a) Rig the fuel controls. Refer to Chapter 76, PT6A-140 Engine Power Control Rigging - Adjustment/Test.			
12. Connect the electrical wiring connectors and ground wires at the following equipment locations: • Battery Connector (PN004) (aft right side of engine) • Prop Overspeed Valve Connector (PN041) (left front of engine) • NP Speed Tach (PN033) (right front of engine) • Cabin Heat Bleed Air Valve connector (PN043) (lower right side of engine) • Oil Pressure Switch (PN030) (right side on engine truss). • Oil Temperature Sensor connector (PN031) (right rear of engine) • NG Speed Tach (PN034) rear, (lower right side of engine) • Starter Generator connector (PN002) (center top of engine accessory case) • Ignition Exciter Connector (PN040) (right engine mount truss) • Fuel Flow connector (PN032) (rear, lower right side of engine) • Torque Transducer (PN038) (right engine mount truss) • RGB Chip Detector (PN035) (right engine mount truss) • Engine groundstraps airplane frame connections.			
13. Install the oil pressure switch supply hose. Refer to Chapter 79, Oil Pressure Switch - Maintenance Practices			
14. Install the engine fire detector wiring harness. Chapter 26, Fire Detection System - Maintenance Practices			
15. Install the starter/generator cooling air hose to the starter/generator. For the 300 Amp Starter/Generator refer to Chapter 80, 300 AMP Starter/Generator Cooling Air Duct - Maintenance Practices. For the 200 Amp Starter/Generator refer to Chapter 80, Starter/Generator Cooling Air Blast Tube - Maintenance Practices.			
16. Connect the cabin heater bleed air line at the flow control valve. Chapter 21, Compressor Bleed Air Heater - Maintenance Practices.			
17. Connect the bleed air hose at mixing air valve. Chapter 21, Compressor Bleed Air Heater - Maintenance Practices			
18. If necessary, install the left nose cap/induction air duct/inertial air separator. Refer to Chapter 71, Inertial Air Separator - Maintenance Practices			
19. If necessary, install the propeller. Refer to Chapter 61, Propeller (Hartzell) - Maintenance Practices.	N/A	N/A	

SMART AVIATION
ENGINEERING ORDER

20. Install the propeller speed control cable. Refer to Chapter 76, Quadrant Assembly And Controls - Maintenance Practices.			
21. Install left and right nosecap bulkhead assemblies and top cowling center panel. Refer to Chapter 71, Engine Cowling and Nose Cap - Maintenance Practices.			
22. Install the oil cooler. Refer to Chapter 79, Oil Distribution - Maintenance Practices (PT6A-140).			
23. Install the right nosecap. Refer to Chapter 71, Engine Cowling and Nose Cap - Maintenance Practices.			
24. Install the fuel supply hose at the fuel heater. Refer to Chapter 73, Oil-To-Fuel Heater Unit - Maintenance Practices section of the Pratt and Whitney PT6A 140 Maintenance Manual P/N 3075742 found in the Introduction List of Publications.			
25. Install the fuel motive flow hose at the motive flow shut off valve (MFSOV). Refer to Chapter 73, Fuel Control - Maintenance Practices section of the Pratt and Whitney PT6A 140 Maintenance Manual P/N 3075742 found in the Introduction List of Publications.			
26. Purge the fuel lines as follows: (a) Push fuel firewall shutoff control fully in. (b) Disconnect the supply fuel line at fuel manifold below engine. 1 Cap down stream line. 2 Use correct shop practices to collect fuel from open supply line (c) Use the starter to motor the engine. (c) When the purge is complete, connect the fuel line to the manifold. Use correct shop practices to discard purged fuel.			
27. Do an operational check of the different components on the engine. (a) Start the engine and do the operational check. Refer to Pilot's Operating Handbook and FAA-Approved Airplane Flight Manual and the Pratt and Whitney PT6A-140 Maintenance Manual P/N 3075742 found in the Introduction List of Publications. (b) Complete an Engine Performance Check. Refer to Chapter 71-00-05, Power Plant (PT6A-140) - Adjustment/Test, Engine Performance Check.			
28. Perform RII inspection if any controls have been disturbed or adjusted.			
29. Install engine cowling.			

SMART AVIATION
ENGINEERING ORDER

30. 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 : Danny Purnama

Stamp :

Signature :

Place/Date : MAKASSAR / 19 OCT 2023

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		Rev. No	ORIGINAL
		Rev. Date	12/10/2023

ENGINE CHANGE - Major Component Inventory Record

Registration	: PK-SNU	**Work Order Number**	: 160/085-SNU/X/2023
Airframe Time	: 4198:10	**Airframe Landings**	: 6710
Engine Time	: 4198:10	**Engine Cycle**	: 6710

	Engine OFF			Engine ON		
Description	**Part Number**	**Serial Number**	**Time Remaining**	**Part Number**	**Serial Number**	**Time Remaining**
Engine Assembly	PT6A-140	PCE-VA0607		PT6A-140	PCE-VA0567	
Propeller Assembly	P7785550-01	181192		P7785550-01	181192	
Compressor Bleed Valve	540-1407-4	9460		3049038-03	93388	
Fuel Control Unit	8063-636	22386669		8063-636	21559434	
Oil Fuel Heater	10981G	WA59506		10981G	WA58660	
Igniter Exciter	CH92106-3A	190820		CH92106-3A	190820	
Flow Divider	25638-3	M1214		25638-3	M0500	
Oil Cooler	3803450000	T0558		3803450000	T0558	
Starter Generator	300SGL1450	500103		300SGL1450	500103	
Alternator	9910592-2	H-T031772		9910592-2	H-T031772	
Fuel Pump	3040760	016863		3040760D	016585	
Propeller Governor	66503-8210-002-01	21681004		8210-002-01	15318252	
Propeller Overspeed Governor	66503-21053-01	21669988		66503-21053-01	21552625	
Fuel Nozzle	3077780-01A	311836 A				

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

1. Approving National Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	235344

4. Organization Name and Address:	5. Work Order/Contract/Invoice Number:
PRATT & WHITNEY ENGINE SERVICES, INC. 1525 MIDWAY PARK RD BRIDGEPORT, WV 26330 FAA CRS# 1MR301K	235344

6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial/Batch Number:	11. Status/Work:
ONE	ENGINE, TURBOPROP PT6A-140	3076226-01	ONE	PCE-VA0567	TESTED

12. Remarks: TTSN: 2553.7 TCSN: 9386 TTSO: N/A TCSO: N/A

This engine has tested as received in accordance with P&WC Overhaul Manual P/N 3075743, Rev. 50, dated 24 October 2022; and other P&WC approved documentation and/or engineering documentation acceptable to the administrator.

Engine test certificate and list of parts replaced are attached to the logbook. Pertinent details of the work performed are on file at this repair station under the above sales order number.

Certifies that the work specified in block 11/12 was carried out in accordance with EASA part 145 and with respect to that work the aircraft engine is considered ready for release to service under EASA acceptance certificate number: EASA.145.4757.

Export classification: ECCN 9E991

13a. Certifies the item identified above was manufactured in conformity to:	14a. ☒ 14 CFR 43.9 Return to Service ☒ Other regulation specified in Block 12
☐ Approved design data and 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.:
13d. Name (Typed or Printed):	13e. Date (dd/mmm/yyyy):
14b. Authorized Signature: Scott Bucklew	14c. Approval/Certificate No.: 1MR301K
14d. Name (Typed or Printed): Scott Bucklew, Authorized Inspector	14e. Date (dd/mmm/yyyy): 24/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 part/component/assembly.

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 parts/components/assemblies 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.

Pratt & Whitney Engine Services, Inc.

ENGINE FUEL SYSTEM PRESERVATION

ENGINE NO: PCE-VA0567

THIS FUEL SYSTEM HAS BEEN PRESERVED WITH OIL

MIL-L-6081 GRADE 1010

DEPRESERVE IN ACCORDANCE WITH THE APPLICABLE MAINTENANCE MANUAL PROCEDURE

INSPECTOR: Scott Buchler FWV 75 DATE: 18 July 03

PWV 3044 (OCT 99)

1. Approving National Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	235344
4. Organization Name and Address:	PRATT & WHITNEY ENGINE SERVICES, INC. 1525 MIDWAY PARK RD BRIDGEPORT, WV 26330 FAA CRS# LM1R301K	5. Work Order/Contract/Invoice Number: 235344

6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial/Batch Number:	11. Status/Work:
ONE	ENGINE, TURBOPROP PT6A-140	3076226-01	ONE	PCE-VA0567	TESTED

12. Remarks: TTSN: 2552.7 TCSN: 9386 TTSO: N/A TCSO: N/A

This engine has tested as received in accordance with P&WC Overhaul Manual P/N 3075745, Rev. 50, dated 24 October 2022; and other P&WC approved documentation and/or engineering documentation acceptable to the administrator.

Engine test certificate and list of parts replaced are attached to the logbook. Pertinent details of the work performed are on file at this repair station under the above sales order number.

Certifies that the work specified in block 11/12 was carried out in accordance with EASA part 145 and with respect to that work the aircraft engine is considered ready for release to service under EASA acceptance certificate number: EASA.145.4757.

Export classification: ECCN 9E991

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. ☒ 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 Regulations, part 43 and in respect to that work, the items are approved for return to service.

14b. Authorized Signature: [signature]

14c. Approval/Certificate No.: LM1R301K

14d. Name (Typed or Printed): Scott Bucklew, Authorized Inspector

14e. Date (dd/mmm/yyyy): 2[illegible]/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 part/component/assembly.

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 parts/components/assemblies 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.

FAA Form 8130-3 (02-14) NSN: 0052-00-012-9005

Liste des composants moteur à numéros de série
Engine Serialized Component Summary

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

Pratt & Whitney Canada Corp.
Pratt & Whitney Canada Corp.
1000, Marie-Victorin
Longueuil, Québec, Canada
J4G 1A1
450-677-9411

Modèle / Model	PT6A-140	N° de série / Serial No.	PCE-VA0567	Caract. de montage / Build Spec NO.	BS1294

N° du matériel / Material Number	Désignation du matériel / Material Name	N° de série / Serial No.	Code de trait. thermique / Heat Code	N° de série du matériel forgé / Forging Serial No.	N° de lot pour trait. thermique / Heat Treat Batch No.	N° de matériel du fournisseur / Vendor Material No.
		YWBH89				
		YWBH91				
		YWBH92				
		YWBH95				
		YWBJ05				
		YWBJ11				
		YWBJ21				
		YWBJ32				
		YWBJ38				
		YWBJ56				
		YWBJ70				
		YWBJ94				
		YWBJ95				
		YWBK02				
		YWBK07				
		YWBK11				
		YWBK35				
		YWBK37				
		YWBK38				
		YWBK59				
		YWBK60				
		YWBK70				
		YWBK73				
3078329-01	DUCT COMB CHMBR EXIT, LARGE, ASSY OF	RWA63F174				
3076360	GEAR-PLANET,FIRST STAGE RDCN,41TEETH	PKAAA802975				
		PKAAA802984				
		PKAAA802987				
3076363	GEAR-PLANET, SECOND STAGE RDCN	PKAAA806196				
		PKAAA806201				
		PKAAA806203				
		PKAAA806204				
		PKAAA806217				
3076420-01	ROTOR-COMPRESSOR	EAAE000P437	WCBFY	206		
3076422-05	EXCHANGER-HEAT,FUEL/OIL	WA58660				
3076428-01	FUEL CONTROL, TURBOPROP	21559434				
3076454-01	GEAR,SUN,FIRST STAGE REDUCTION	PKAAA807280				
3076470-01	SHAFT & SLEEVE SET,PROPELLER	EAAE000M218	P4AQE			
3076635-01	SHAFT,COUPLING,ACCESSORY GEARBOX	PKAAA798505				

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Pratt & Whitney Canada

Pratt & Whitney Canada Corp.
1000 Marie-Victorin
Longueuil, Québec, Canada
J4G 1A1
450 677 9411

PSWC (01/2012)

Modèle / Model	PT6A-140	N° de série / Serial No.	PCE-VA0567	Caract. de montage / Build Spec NO	BS1294

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3077979-01	CARRIER-SECOND STAGE REDUCTION	PKAAA802087				
3078325-01	CARRIER-FIRST STAGE REDUCTION	PKAAA686615				
3078326-01	CARRIER SET FIRST STAGE REDUCTION	PKAAA700746				
3078330-01	COUPLING REDUCTION GEARBOX	PKAAA792059				
3078381-01	VALVE-MOTIVE FLOW SOL	BCAAAA00856				
3079150-01	GOVERNOR-PROPELLER OVERSPEED	21552629				
3079349-01	HOUSING-RGB REAR	RWA60F048				
3079433-01	HOUSING ASSY-PROP RDCN GBOX,FRONT	RWA61F548				
3079474-01	CASE-GAS GENERATOR ASSY OF	RWA48F452				
3079564-01	HOUSING-POWER TURBINE SHAFT ASYO	LPAC0024087				
3079919-01	HOUSING ASSY-REDUCTION GEARBOX,REAR	RWA60F048				
3107449-01	BEARING-RLR,FLG 1.2706X2.047X.5581	FCN495940				
3112117-03	BEARING BALL	FCN502054				
3112368-01	BEARING-ROLLER FLANGED .94X1.65X.47	FAA1812226				
		FAA1812249				
		FAA1812925				
		FAA1812926				
		FAA1812927				
		FAA1812928				
		FAA1812929				
		FAA1812940				
		FAA1812944				
		FAA1812951				
		FAA1812963				
3117924-01	WIRING HARNESS-T5 THERMOCOUPLE	NR36518				
3124964-01	DUCT-TURBINE EXHAUST,SGL PORT ASYO	RWA63F555				
3126114-01	LINER-COMBUSTION CHAMBER ASSY OF	A004CDAA				

Approuvé par / Approved By: R. J. DAVIES

Date: 2019 01 15

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Engine Serialized Component Summary

Pratt & Whitney Canada
Une société de United Technologies. A United Technologies Company
Pratt & Whitney Canada Inc.
1000 Marie-Victorin
Longueuil, Québec, Canada
J4G 1A1
450 677-9411

Modèle / Model	PT6A-140	N° de série / Serial No.	PCE-VA0567	Caract. de montage / Build Spec NO.	BS1294

N° du matériel / Material Number	Désignation du matériel / Material Name	N° de série / Serial No.	Code de trait. thermique / Heat Code	N° de série du matériel forgé / Forging Serial No.	N° de lot pour trait. thermique / Heat Treat Batch No.	N° de matériel du fournisseur / Vendor Material No.
		HWXD7138				
		HWXD7139				
		HWXD7147				
		HWXD7150				
		HWXD7159				
		HWXD7164				
		HWXD7182				
		HWXD7186				
		HWXD7194				
		HWXD7197				
		HWXD7200				
		HWXD7216				
		HWXD8462				
		HWXD8473				
		HWXD8479				
		HWXD8491				
		HWXD8508				
		HWXD8514				
		HWXD8530				
		HWXD8533				
		HWXD9929				
		HWXD9995				
		HWXE0004				
		HWXE0043				
3076608-01	GEARSHAFT DRIVE ACCESSORY GEARBOX	PKAAA798070				
3076621-01	BEARING BALL FLG 2 952BX5 1181X 9643	FCN501039				
3076655-01	BEARING-ROLLER FLANGED	FAA1815861				
3076855-01	DISC TURBINE	YUAB001M414	ZAFFU	416		
3076856-01	DISC TURBINE	CRAZAFHL177	ZAFHL	177		
3076918-01	GEAR RING SECOND STAGE REDUCTION	PKAAA798698				
3077325-01	CASE COMPRESSOR INLET (MACH)	FWAA000A636				
3077326-01	CASE ASSY COMPRESSOR INLET	FWAA000A636				
3077381-01	GEAR-RING FIRST STAGE REDUCTION	PKAAA801180				
3077382-01	SHAFT-PROPELLER	EAAE000M218	P4AQE			
3077383-01	SHAFT ASSY PROPELLER	EAAE000M218	P4AQE			
3077848-01	HOUSING-POWER TURBINE STATOR ASYD	MDA1800366E				
3077966-01	ADAPTER-SPLINED FIRST STAGE CARRIER	PKAAA679784				
3077973-01	GEAR-SUN SECOND STAGE REDUCTION	PKAAA798866				

Pratt & Whitney Canada
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Pratt & Whitney Canada Cie
Pratt & Whitney Canada Corp
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J4G 1A1
450-677-9411

Modèle / Model	PT6A-140	N° de série / Serial No.	PCE-VA0567	Caract. de montage / Build Spec NO.	BS1294

N° du matériel / Material Number	Désignation du matériel / Material Name	N° de série / Serial No.	Code de trait. thermique / Heat Code	N° de série du matériel forgé / Forging Serial No.	N° de lot pour trait. thermique / Heat Treat Batch No.	N° de matériel du fournisseur / Vendor Material No.
3076506-01	GEARSHAFT-STARTER GENERATOR DRIVE	PKAAA787402				
3076527-01	EJECTOR FUEL WASTE	D0576				
3076545-01	COUPLING-POWER TURBINE SHAFT	PKAAA804826				
3076558-01	COUPLING-COMPRESSOR REAR HUB	PKAAA788023				
3076661-01	BLADE-TURBINE	HWWX6322				
		HWWX6328				
		HWWX6331				
		HWWX6341				
		HWWX6343				
		HWWX6405				
		HWWX6406				
		HWWX6709				
		HWXC0210				
		HWXC0214				
		HWXC0236				
		HWXC0310				
		HWXC1109				
		HWXC1528				
		HWXC2818				
		HWXC2825				
		HWXC2898				
		HWXC4150				
		HWXC4154				
		HWXC4167				
		HWXC4169				
		HWXC4181				
		HWXC4185				
		HWXC4190				
		HWXC4213				
		HWXC4218				
		HWXC7556				
		HWXC9762				
		HWXC9765				
		HWXC9789				
		HWXC9793				
		HWXC9797				
		HWXD7089				
		HWXD7096				

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Pratt & Whitney Canada Corp.
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450 677 9411

Modèle / Model	PT6A-140	N° de série / Serial No.	PCE-VA0567	Caract. de montage / Build Spec NO.	BS1294

N° du matériel / Material Number	Désignation du matériel / Material Name	N° de série / Serial No.	Code de trait. thermique / Heat Code	N° de série du matériel forgé / Forging Serial No.	N° de lot pour trait. thermique / Heat Treat Batch No.	N° de matériel du fournisseur / Vendor Material No.
3011095	SHAFT-POWER TURBINE	RWA60F276	PXAHX			
3023570	FLOW DIVIDER AND DUMP VALVE	M1139				
3027629	BUS BAR-T5 THERMOCOUPLE,ASSY	HRA674346				
3027796	IMPELLER-CENTRIFUGAL	FRAEPWPE40	EPWPE	40		
3037603	TEMPERATURE SENSOR	NR06334				
3040213	DISC-COMPRESSOR	A004CBBC	KAXTT	390		
3040312	DISC-COMPRESSOR	A004CBBF	KAXTT	362		
3040760	PUMP-FUEL	016585				
3043937-06	EXCITER-IGNITION	182626				
3049038-03	VALVE-COMPRESSOR BLEED	9386				
3049382CL03	VANE RING-POWER TURBINE,ASSY	HLA447AC				
3054917-02	SENSOR-TEMPERATURE, OIL & FUEL	NR00718				
3055000-01	SHAFT-STUB,COMPRESSOR ROTOR	PKAAA601219	EPWU9	75		
3055649-01	SHAFT-STUB,COMPRESSOR,FRONT	RWA61F093	P4ARE			
3055736-01	TORQUE LIMITER	F80361				
3055781CL02	VANE RING-TURBINE,ASSY OF	HLA231BB707				
3073900-01	BEARING-RLR,FLG 1.5748X2.6772X.5906	AEB0300235				
		AEB0300253				
3073901-01	BEARING-BALL,FLG,1.1810X2.8344X.745	AEB0299533				
3074154-01	GOVERNOR-PROPELLER	21549064				
3076290-01	BLADE-POWER TURBINE	YWAR37				
		YWAW57				
		YWAY25				
		YWBE38				
		YWBE56				
		YWBE82				
		YWBE94				
		YWBF09				
		YWBF82				
		YWBF84				
		YWBF99				
		YWBG24				
		YWBG25				
		YWBG38				
		YWBH64				
		YWBH66				
		YWBH73				
		YWBH77				

Cont'd

Liste des composants moteur à numéros de série
Engine Serialized Component Summary

Pratt & Whitney Canada
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Pratt & Whitney Canada Corp.
Pratt & Whitney Canada Corp.
1000, Marie-Victorin
Longueuil, Québec, Canada
J4G 1A1
450 677-9411

PWC JBO-6330-B (2012-10)

Modèle / Model	PT6A-140	N° de série / Serial No.	PCE-VA0567	Caract. de montage / Build Spec NO.	BS1294

N° du matériel / Material Number	Désignation du matériel / Material Name	N° de série / Serial No.	Code de trait. thermique / Heat Code	N° de série du matériel forgé / Forging Serial No.	N° de lot pour trait. thermique / Heat Treat Batch No.	N° de matériel du fournisseur / Vendor Material No.
3011095	SHAFT-POWER TURBINE	RWA60F278	PXAHX			
3023670	FLOW DIVIDER AND DUMP VALVE	M1139				
3027629	BUS BAR-T5 THERMOCOUPLE,ASSY	HRA674346				
3027798	IMPELLER-CENTRIFUGAL	FRAEPWPE40	EPWPE	40		
3037603	TEMPERATURE SENSOR	NR06334				
3040213	DISC-COMPRESSOR	A004CBBC	KAXTT	393		
3040312	DISC-COMPRESSOR	A004CBBF	KAXTT	362		
3040760	PUMP-FUEL	016585				
3043037-06	EXCITER-IGNITION	182626				
3049038-03	VALVE-COMPRESSOR BLEED	938B				
3049382CL03	VANE RING-POWER TURBINE,ASSY	HLA447AC				
3054917-02	SENSOR-TEMPERATURE, OIL & FUEL	NR00718				
3055000-01	SHAFT-STUB COMPRESSOR ROTOR	PKAAA801219	EPWUB	75		
3055649-01	SHAFT-STUB COMPRESSOR,FRONT	RWA61F093	P4ARE			
3055736-01	TORQUE-LIMITER	F80361				
3055781CL02	VANE RING-TURBINE ASSY DF	HLA231BB767				
3073900-01	BEARING-RLR,FLG 1.5748X2.6772X.5906	AEB0300235				
		AEB0300253				
3073901-01	BEARING-BALL,FLG,1.1810X2.8344X.745	AEB0299533				
3074154-01	GOVERNOR-PROPELLER	21548064				
3076290-01	BLADE-POWER TURBINE	YWAR37				
		YWAW57				
		YWAY25				
		YWBE39				
		YWBE56				
		YWBE82				
		YWBE94				
		YWBF09				
		YWBF82				
		YWBF84				
		YWBF99				
		YWBG24				
		YWBG25				
		YWBG36				
		YWBH64				
		YWBH66				
		YWBH73				
		YWBH77				

Cont'd

PRATT & WHITNEY CANADA CORP. P68 PROGRAM 4.4.50

PT6A-140 S/N:PCE-VA0567 FINAL ACCEPTANCE TEST RECORD

2019 JAN 14 TEST CELL : 3202 BUILD SPEC.: 1294

ENGINE TESTED AND ACCEPTED IN ACCORDANCE WITH E&TI : 800

FINAL VANE FLOW AREAS FIRST STAGE : 29501 2S2 6.00

SECOND STAGE : 29501 3S3 16.07

PERFORMANCE DATA		TAKE-OFF SPEC	TAKE-OFF ACTUAL
PROP SPEED		1900.	1900.
S.L.S. STD.DAY POWER		867.	867.
I.T.T. (T5A TRIMMED)	DEG R	1838.	1830.
T5D (DERIVED)	DEG R	1888.	1871.
GAS GEN. SPEED	RPM	36735	36400.
SFC @ 18400 BTU/LB	LB/SHP.HR	0.618	0.595
ENGINE TORQUE	PSI		40.17
PRESSURE RATIO @ 36000	RPM	7.38	7.27

FUEL TYPE : CPW 204

TEST LHV : 18497. BTU/LB

S.G. :0.822 @ 52. DEG F

OIL TYPE : PWA 521 TYPE II

OIL CONSUMPTION : 0.0 LB/HR

T.O. OIL PRESSURE : 90.8 PSI

OIL TEMPERATURE : 155.9 DEG F

I.T.T. TRIM DELTA T (UNTRIMMED-TRIMMED) : 117.0 DEG F

I.T.T. TRIM DELTA T (UNTRIMMED-TRIMMED) : 65.0 DEG C

I.T.T. TRIM CLASS : 25

TRIM RESISTANCE : 8.90 OHMS

COLD HARNESS RESISTANCE : 0.72 OHMS

HANDLING AND CONTROL SETTINGS

TRIMMED MAX NG : N/A RPM

UNTRIMMED MAX NG : 38850 RPM

IDLE SPEED : 20861 RPM

ACCEL. TIME F.I. TO MAX @ T1 : 2.72 SECS @ 46.9 DEGF

ENGINE DRY WEIGHT : 393.48 LBS.

PRODUCTION SIGNATURE : N. VOLLO 3 OACT 2

INSPECTION SIGNATURE : A. PIERSON 6 OACT

GOVERNMENT INSPECTOR :

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

DATE 15 JAN 2019 FOREMAN, ASSY. & TEST INSP : TO 446 NO.004 R.J. DAVIES