

# Estimate



**Pratt & Whitney Canada**  
A United Technologies Company

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

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No. 96720265  
Date 2024.05.17

P&WC JR3\_6990\_E (2016-01)

QST 100 1620 165 TQ 0005MF - GST R104287008

Invoice To		Deliver To		End Customer				
Vietnam Airlines Gialam Airport 200 Nguyen Son, Longbien District 10000 HANOI VIETNAM		Airimex Branch Tan Binh Dist Rm 408,4th Floor,49 Truong Son 00000 HO CHI MINH CITY VIETNAM		Vietnam Airlines Gialam Airport 200 Nguyen Son, Longbien District 10000 HANOI VIETNAM				
Purchase Order No.		ST 70753206		Purchase Order Date		2023.12.15		
Sales Order No.		239738		Sales Order Date		2024.04.19		
Customer Account No.		32083		Customer VAT/TAX No.				
Engine Model	Module	Serial No.	TSN	CSN	TSO	CSO	TSHSI	Workscope
7002907H05	ENGINE ASSEMBLY	HSC-E1525470PL	18162.0	10242.0				Major Repair: Powerhead and Gearbox an
As Received		TTSN TCSN						
Reason For Removal		Repair						
			Statement Currency					
			USD					
Subtotal			684,653.89					
			%					
Total Amount Payable			684,653.89					
All past due amounts are subject to an interest charge of 1.5%per month.								

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## Summary of Charges

Purchase Order No. ST 70753206  
Sales Order No. 239738  
Customer Account No. 32083

Purchase Order Date 2023.12.15  
Sales Order Date 2024.04.19  
Customer VAT/TAX No.

Engine Model	Module	Serial No.	TSN	CSN	TSO	CSO	TSHSI	Workscope
7002907H05	ENGINE ASSEMBLY	HSC-E1525470PL	18162.0	10242.0				Major Repair: Powerhead and Gearbox an
As Received TTSN TCSN								
Total P&WC Warranty Credit Already Applied on this Estimate(Memorandum Only)								-88,703.11
								Total USD
Labour								47,000.00
New Materials								833,950.07
Campaign Material								19,273.89
Component Repair								159,997.00
Other								-375,567.07
								684,653.89

This estimate is valid for 10 days and must be approved in writing within such period to ensure parts availability.  
After this period, the estimate is subject to change. Non repairable exchange cores are subject to additional billing.  
All warranty credits in this estimate are subject to P&WC Warranty Administration consideration. For any engine on customer hold for more than 60 days, all costs incurred will be invoiced, plus a storage fee at a rate of \$100 USD/day until the engine is released by the customer to completion. P&WC Standard Conditions of Sale set out in its Order Confirmation will continue to apply to any parts or services provided by P&WC under this estimate.



Warranty Summary

Purchase Order No. ST 70753206  
Sales Order No. 239738  
Customer Account No. 32083

Purchase Order Date 2023.12.15  
Sales Order Date 2024.04.19  
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Engine Model	Module	Serial No.	TSN	CSN	TSO	CSO	TSHSI	Workscope
7002907H05	ENGINE ASSEMBLY	HSC-E1525470PL	18162.0	10242.0				Major Repair: Powerhead and Gearbox an
As Received TTSN TCSN								
Description		Total USD						
Commercial Support Credit		-88,703.11						
Total Warranty already applied on the invoice		-88,703.11						

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Purchase Order Date 2023.12.15  
Sales Order Date 2024.04.19  
Customer VAT/TAX No.

### Labour Summary

Material	Description	Unit Price	Qty	Extended List	Sub-Total	Total	Curr.
R7002907_B6	Major Repair: Powerhead and Gearbox an	47000.00	1.0	47000.00	47000.00	47000.00	USD
Total				47000.00	47000.00	47000.00	

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Purchase Order No. ST 70753206  
Sales Order No. 239738  
Customer Account No. 32083

Purchase Order Date 2023.12.15  
Sales Order Date 2024.04.19  
Customer VAT/TAX No.

## New Material Summary

Material	Description	Reason for removal	Unit Price	Qty	Extended List	Cust Disc (%)	Sub-Total	Total	Curr.
4510372	TAB-BEARING, RETENTION	Upgrade	291.80	8.0	2334.40	10.0-	2100.96	2100.96	USD
4511866	MODIFICATION PLATE	Flaking	52.36	1.0	52.36	10.0-	47.12	47.12	USD
4951014	ELEMENT, FILTER-DIRT ALERT	Expendable part(s)	1016.90	2.0	2033.80	10.0-	1830.42	1830.42	USD
4952384	GASKET, FUEL INJECTOR	Expendable part(s)	183.10	12.0	2197.20	10.0-	1977.48	1977.48	USD
7000118H01	FILTER ELEMENT, OIL	Expendable part(s)	264.10	1.0	264.10	10.0-	237.69	237.69	USD
7000140	BEARING, BALL	Value maintenance MDC	19989.00	1.0	19989.00	10.0-	17990.10	17990.10	USD
7000151H03	THERMOCOUPLE,EGT	Erosion MDC	9383.00	1.0	9383.00	10.0-	8444.70	8444.70	USD
7000263	BEARING ASSY,ROLLER, CYLINDRICAL	Corrosion MDC	3139.00	2.0	6278.00	10.0-	5650.20	5650.20	USD
7000269	RING, PISTON	Worn at sealing face	1955.40	2.0	3910.80	10.0-	3519.72	3519.72	USD
7000304	BEARING, ROLLER	Value maintenance MDC	6604.40	1.0	6604.40	10.0-	5943.96	5943.96	USD
7000305H04	IGNITOR	Value maintenance MDC	2165.60	2.0	4331.20	10.0-	3898.08	3898.08	USD
7000455	SEAL, CARBON-ROLLER BEARING	Value maintenance MDC	2967.90	1.0	2967.90	10.0-	2671.11	2671.11	USD
7000544	SEAL, CARBON FACE	Value maintenance	2422.70	1.0	2422.70	10.0-	2180.43	2180.43	USD
7000838	SLEEVE, PUMP	Fretting	1048.60	1.0	1048.60	10.0-	943.74	943.74	USD
7000943H01	ELEMENT, OIL FILTER	Expendable part(s)	290.20	2.0	580.40	10.0-	522.36	522.36	USD
7000945	ELEMENT, FILTER-DIRT ALERT	Expendable part(s)	385.60	1.0	385.60	10.0-	347.04	347.04	USD
7001274C	DIFFUSER ASSEMBLY, INSEPARABLE	Dimensional discrepancy	104078.00	1.0	104078.00	10.0-	93670.20	93670.20	USD
7001278-2	RING, PISTON-1ST STAGE	Functional inoperative	8146.10	1.0	8146.10	10.0-	7331.49	7331.49	USD
7001279-2	RING, PISTON-2ND STAGE	Functional inoperative	8146.10	1.0	8146.10	10.0-	7331.49	7331.49	USD
7001310	BOLT, BRUSH SEAL HOUSING	Broken	286.60	2.0	573.20	10.0-	515.88	515.88	USD
7001346A	SHROUD ASSEMBLY-INSEPARABLE	Sulfidation MDC	79164.00	1.0	79164.00	10.0-	71247.60	71247.60	USD
7001505	SEAL, BRUSH	Dimensional discrepanceMDC	11705.00	1.0	11705.00	10.0-	10534.50	10534.50	USD
7002144	GASKET, SIGHT GLASS	Expendable part(s)	1692.80	1.0	1692.80	10.0-	1523.52	1523.52	USD
7002837	RUNNER, LABYRINTH	Scaling	6203.80	1.0	6203.80	10.0-	5583.42	5583.42	USD

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Sales Order No. 239738  
Customer Account No. 32083

Purchase Order Date 2023.12.15  
Sales Order Date 2024.04.19  
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## New Material Summary

Material	Description	Reason for removal	Unit Price	Qty	Extended List	Cust Disc (%)	Sub-Total	Total	Curr.
7002987-10	SEAL-AFT PLATE, EQUIPMENT DESIGNATOR (M	Missing	38.05	1.0	38.05	10.0-	34.24	34.24	USD
7003538-1	BRACKET		2665.20	2.0	5330.40	10.0-	4797.36	4797.36	USD
7003538-2	BRACKET		2665.20	2.0	5330.40	10.0-	4797.36	4797.36	USD
7003764-036	SHIM	Corrosion	2908.10	1.0	2908.10	10.0-	2617.29	2617.29	USD
7003965	RING,MATING- CARBONFACESEAL	Value maintenance MDC	1015.50	1.0	1015.50	10.0-	913.95	913.95	USD
7004300	HOSE ASSY, GEARBOX TO FUEL HEA	Torn	11550.00	1.0	11550.00	10.0-	10395.00	10395.00	USD
7004378A	RING ASSEMBLY, CONTAINMENT	Crack MDC	69309.00	1.0	69309.00	10.0-	62378.10	62378.10	USD
7004472A	NOZZLE ASSEMBLY, TURBINE-1ST	Burnt	77823.00	1.0	77823.00	10.0-	70040.70	70040.70	USD
7004608	FIRE SLEEVE, FUEL MANIFOLD-PRI	Torn MDC	4976.60	1.0	4976.60	10.0-	4478.94	4478.94	USD
7004609	FIRE SLEEVE, FUEL MANIFOLD-SEC	Torn MDC	6002.00	1.0	6002.00	10.0-	5401.80	5401.80	USD
7004996	BELLMOUTH	Dimensional discrepancMDC	11269.00	1.0	11269.00	10.0-	10142.10	10142.10	USD
7005298-4	BLANKET-MAIN	Torn MDC	9743.40	1.0	9743.40	10.0-	8769.06	8769.06	USD
7005326-2	BLANKET SET, COMBUSTOR	Torn	2317.80	1.0	2317.80	10.0-	2086.02	2086.02	USD
7006475	BOLT,MACHINE- DRILLED	Expendable part(s)	188.70	3.0	566.10	10.0-	509.49	509.49	USD
7006771	BLADE, TURBINE, 1ST STAGE MACHINING		2549.20	40.0	101968.00	10.0-	91771.20	91771.20	USD
7006772	COLLAR, RIVET		227.60	40.0	9104.00	10.0-	8193.60	8193.60	USD
7006772	COLLAR, RIVET		227.60	40.0	9104.00	10.0-	8193.60	8193.60	USD
7006963	MATING RING, SEAL (HYDRODYNAMIC)	Value maintenance MDC	5045.50	1.0	5045.50	10.0-	4540.95	4540.95	USD
7006964	SEAL, CARBON FACE (HYDRODYNAMIC)	Value maintenance MDC	4370.20	1.0	4370.20	10.0-	3933.18	3933.18	USD
7007092B	NOZZLE ASSY-TURBINE, 2ND STAGE	Burnt MDC	55896.00	1.0	55896.00	10.0-	50306.40	50306.40	USD
7007099	GEARSHAFT-PINION	Upgrade	6857.80	1.0	6857.80	10.0-	6172.02	6172.02	USD

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**Purchase Order No.** ST 70753206  
**Sales Order No.** 239738  
**Customer Account No.** 32083

**Purchase Order Date** 2023.12.15  
**Sales Order Date** 2024.04.19  
**Customer VAT/TAX No.**

## New Material Summary

Material	Description	Reason for removal	Unit Price	Qty	Extended List	Cust Disc (%)	Sub-Total	Total	Curr.
7007100	BEARING-CERAMIC BALL	Upgrade MDC	3139.00	1.0	3139.00	10.0-	2825.10	2825.10	USD
7007101	BEARING-ROLLER, CYLINDRICAL	Upgrade MDC	3139.00	1.0	3139.00	10.0-	2825.10	2825.10	USD
7007102	NOZZLE-LUBE,FWD PINION,ASSY OF	Upgrade	2133.40	1.0	2133.40	10.0-	1920.06	1920.06	USD
7007103	NOZZLE-AFT PINION, ASSY OF	Upgrade	3624.50	1.0	3624.50	10.0-	3262.05	3262.05	USD
7007104	NOZZLE-GEARMESH, ASSY OF	Upgrade	2133.40	1.0	2133.40	10.0-	1920.06	1920.06	USD
7007106	BOLT-TIE,ASSY OF	Upgrade MDC	8585.10	1.0	8585.10	10.0-	7726.59	7726.59	USD
7007110	LOCKNUT-TIE BOLT	Upgrade	1553.60	1.0	1553.60	10.0-	1398.24	1398.24	USD
7007112	SNUBBER-TURBINE		1090.20	1.0	1090.20	10.0-	981.18	981.18	USD
7007114	SEAL-CURVIC	Upgrade	681.60	1.0	681.60	10.0-	613.44	613.44	USD
7007115	NUT-BALL BEARING	Upgrade	961.40	1.0	961.40	10.0-	865.26	865.26	USD
7007118	SHAFT-IMPELLER	Upgrade MDC	18299.00	1.0	18299.00	10.0-	16469.10	16469.10	USD
7007123	TUBE-TRANSFER	Upgrade	125.30	1.0	125.30	10.0-	112.77	112.77	USD
7007124	NOZZLE-BALL BEARING, ASSY OF	Upgrade	3692.20	2.0	7384.40	10.0-	6645.96	6645.96	USD
7007125	TUBE-TRANSFER	Upgrade	332.60	1.0	332.60	10.0-	299.34	299.34	USD
7007130	PLATE, IDENTIFICATION	Upgrade	60.25	1.0	60.25	10.0-	54.22	54.22	USD
7007183	INLET ASSY, PERFORATED - INSEPARABLE	Corrosion MDC	39741.00	1.0	39741.00	10.0-	35766.90	35766.90	USD
7007191	SHROUD, COMPRESSOR	Rubbing	40864.00	1.0	40864.00	10.0-	36777.60	36777.60	USD
7900007-1	RIVET-SOLID		40.59	40.0	1623.60	10.0-	1461.24	1461.24	USD
7900007-2	RIVET-SOLID		40.59	40.0	1623.60	10.0-	1461.24	1461.24	USD
7900075	SHAFT-QUILL	Upgrade	6802.80	1.0	6802.80	10.0-	6122.52	6122.52	USD
7900087	PISTON-VALVE,RELIEF	Upgrade	3294.90	1.0	3294.90	10.0-	2965.41	2965.41	USD
7900088	SLEEVE-VALVE,RELIEF	Upgrade	3044.60	1.0	3044.60	10.0-	2740.14	2740.14	USD
7900095	IMPELLER-COMPRESSOR	Rubbing MDC	85512.00	1.0	85512.00	15.0-	72685.20	72685.20	USD
7900096	RING-BACK UP	Upgrade	140.10	2.0	280.20	10.0-	252.18	252.18	USD
7900170	MANIFOLD-FUEL, PRIMARY	Functional inoperative	8558.60	1.0	8558.60	10.0-	7702.74	7702.74	USD
810901-019	PACKING, PREFORMED	Upgrade	76.16	1.0	76.16	10.0-	68.54	68.54	USD

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### New Material Summary

Material	Description	Reason for removal	Unit Price	Qty	Extended List	Cust Disc (%)	Sub-Total	Total	Curr.
810901-916	PACKING, PREFORMED	Upgrade	76.16	1.0	76.16	10.0-	68.54	68.54	USD
ST6392-14	NUT-SELF LOCKING 1.4375-16UNJF	Upgrade	802.10	2.0	1604.20	10.0-	1443.78	1443.78	USD
Total					931361.88		833950.07	833950.07	



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### Campaign Material Summary

Material	Unit Price	Qty	Extended List	Cust Disc (%)	Sub-Total	Total	Curr.
7900042	69080.00	1.0	69080.00	82.2-	12330.78	12330.78	USD
7900043	38897.00	1.0	38897.00	82.2-	6943.11	6943.11	USD
Total			107977.00		19273.89	19273.89	

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**Customer Account No.** 32083

**Purchase Order Date** 2023.12.15  
**Sales Order Date** 2024.04.19  
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## Component Repair - Flat Rate Summary

Material	Description	PN Rework	Description P/N	Repair Level	Reason for removal	Unit Price	Qty	Extended List	Sub-Total	Total	Curr.
R7000273H07_L1	RPRL 1 - Repair			01		8827.00	1.0	8827.00	8827.00	8827.00	USD
R7000456H02_L0	RPRL 0 - Serviceability Review			00		464.00	6.0	2784.00	2784.00	2784.00	USD
R7000473_L2	RPRL 2 - Major Repair			02		45335.00	1.0	45335.00	45335.00	45335.00	USD
R7003096-4_L1	RPRL 1 - Major Repair			01		3899.00	1.0	3899.00	3899.00	3899.00	USD
R7003472B_L0	RPRL 0 - Serviceability Review			00		3872.00	1.0	3872.00	3872.00	3872.00	USD
R7004295H04_L1	RPRL 1 - Overhaul			01		11089.00	1.0	11089.00	11089.00	11089.00	USD
R7004743B_L1	RPRL 1 - Minor Repair			01		15950.00	1.0	15950.00	15950.00	15950.00	USD
R7004744_L1	RPRL 1 - Minor Repair			01		11151.00	1.0	11151.00	11151.00	11151.00	USD
R7006653_L1	RPRL 1 - Minor Repair			01		21680.00	1.0	21680.00	21680.00	21680.00	USD
R7900050_L2	RPR 2 - Upgrade per SB #500077			02		18262.00	1.0	18262.00	18262.00	18262.00	USD
R7900169_L3	RPRL 3 - Major Repair-Including Upgrade			03		17148.00	1.0	17148.00	17148.00	17148.00	USD
Total								159997.00	159997.00	159997.00	

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### Other Summary

Material	Description	Unit Price	Qty	Extended List	Sub-Total	Total	Curr.
CAPPED COST	NTE Amount \$665,380.00	383867.07-	1.0	383867.07-	383867.07-	383867.07-	USD
R7002907_C6	Consumables- Major Repair	8300.00	1.0	8300.00	8300.00	8300.00	USD
Total				375567.07-	375567.07-	375567.07-	

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