



INVOICE

Page: 1
Date: 1/22/2025

Invoice: 70023

Bill To:

Ship To:

COD Edm CAD
9204 37 Ave NW
Edmonton AB T6E 5L4 Canada

PO Number:

Terms: COD

Sales Rep:

Ship Date: 1/22/2025

Doosan - P185 Air compressor S/N - 485965906UHYP05 Engine S/N - PE4024R143535 Hours: 11357

1/2/2024

- Attempted to start air compressor. Did manage to get engine to start very briefly. Engine stopped operating and was unable to start engine again.
- Tried to bar engine over by hand, unable to do so.
- Advised office to contact customer on how they would like us to proceed.

1/5/2024

- Received go ahead to remove cylinder head and inspect damages.
- Removed exhaust, removed fuel lines, removed intake hose and air cleaner, drained coolant.
- Pulled valve cover, rocker arm, lifters, push tubes.
- Removed head bolts and pulled head. Head and cylinders are in good shape. Removed and cut oil filter apart. Noticed a few pieces of bearing material in filter element. Filter has recently been changed before bringing to us, so very little debris was seen in filter.
- Made a parts quote list for repair of engine including bottom end components, main and rod bearings etc. Parts quote made without having seen crank and bearings.

1/24/2024

- Drained oil, began removing components to allow ease of removing roof of compressor.
- Removed door lift cylinders, removed all bolts and removed roof.

1/25/2024

- Disconnected engine from compressor, removed fender and fuel tank.
- Removed all components still attached to engine in order to remove engine from trailer.
- Drained oil, removed oil pan, removed piston #4 and found rod bearing to be spun.
- Crankshaft is in rough shape and piston rod and cap have gotten very hot.

7/3/2024

- Began disassembling engine for rebuild.
- Removed front pulley, removed front cover.
- Inspected oil pump, oil pump looks good.
- Removed rod caps and pulled pistons.
- Removed flywheel.

GST registration number R101898013.

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New equipment, new parts and factory rebuilt assemblies are warranted by the manufacturer and are subject to their time limits and conditions. Service work and assemblies rebuilt by Frontier are warranted for 90 days from the date of delivery unless otherwise specified in writing.

All claims must be made immediately on discovery, within the above time limits, to be eligible for warranty consideration. Improper installation, misuse or improper servicing or maintenance will void all warranties. Consequential damages, downtime and freight charges are excluded by warranties.

Frontier

POWER PRODUCTS

INVOICE

Page: 2
Date: 1/22/2025

70023

- Removed rear seal and carrier.
- Removed main caps and pulled crankshaft.
- Removed injectors and all cam followers.
- Honed cylinders briefly. Looked over parts list.

7/4/2024

- Cleaned parts for rebuild.
- Went over and added a few parts to the parts list.

7/11/2024

- Received and check over parts brought in for rebuild.
- Made adjustment to parts list, ordered the pans needed which were missed.

7/16/2024

- Removed piston rings, cleaned pistons and installed new piston rings.
- Cleaned production oils off of new crankshaft.
- Installed new main bearings, installed crankshaft and attempted to install and tighten main caps.
- Cleaned other parts.

7/17/2024

- Installed and torqued main caps.
- Installed pistons, realized one piston rod was binding while rotating engine.
- Ordered a new connecting rod for piston 4, changed it and torqued bolts.
- Installed rear seal carrier and rear sea.
- Installed and torqued flywheel.

7/22/2024

- Cleaned front cover and mating surface on block.
- Installed front cover.
- Installed front seal.
- Installed water pump.
- Installed oil pick up tube.
- Installed oil pan.

7/23/2024

- Installed and clocked injectors.
- Installed fuel nozzles.
- Installed push tubes and rocker arms.
- Cleaned gasket surface of valve cover and block in preparation of installing valve cover.

7/26/2024

- Installed manifold and turbo onto engine.
- Installed fuel governor door.
- Looked for missing fitting for valve cover.

10/3/2024

- Pulled unit to wash bay.
- Sprayed trailer, brought back and installed engine, hooked up harness.
- Installed fuel tank, fan, belt and guard.

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INVOICE

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10/8/2024

- Filled coolant, filled oil. Got and spun on oil filter. Requested compressor oil.

10/10/2024

- Filled with compressor fluid.
- Started and ran unit.
- Topped up oil, moved unit to work area.
- Installed side panel and lid.

Legal Number: 70023

Line	Part Number/Description	Revision	Quantity	Unit Price	Ext Price
1	Labor		1.00EA	4,760.00000/1	4,760.00
	Line Ref. 2				
2	Parts		1.00EA	3,858.66000/1	3,858.66
	Parts as per quote 4508 less				
	Line Ref. 3				

INVOICE		- Taxes -		
Line	Description	Taxable Amt	Percent	Amount
2	GST	4,760.00	5.00 %	238.00
3	GST	3,858.66	5.00 %	192.93

<u>Payment Schedule</u>		
Due Date		Amount
1	1/22/2025	9,049.59
	<u>Total</u>	9,049.59

Line(s) Subtotal:	8,618.66
Miscellaneous Charges:	0.00
Less Advance Billing:	0.00
Total Tax:	430.93
Less Prepaid Deposits:	0.00
Less Deposit:	0.00
Rounding:	0.00
Total	9,049.59 \$

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