

Lot 20

Page: 1 of 1

Perih Heavy Duty Inc
RR1
Gilbert Plains, MB R0L 0X0, CA
perihhd@gmail.com
204-648-3122



Invoice: 518

Date: 2/7/2022

Remit Payment To
Perih Heavy Duty Inc
RR1
Gilbert Plains, MB R0L 0X0, CA

Service Order	Terms	Due Date	Authorizer	Customer PO	Service Writer	Unit #
1557	Net 30	3/9/2022	Lowell Penner		Perih, Steven	

Item	Description	Quantity	Rate	Amount
Complaint: Repair A/C				
Cause: Customer request				
Labor	Correction: Chassis / Air Conditioning & Heating / System very low. Vacuum system and no leak was detected. Charged machine system blows cold and cycles well but may need compressor if it leaks out again. Expansion valve would be done at that time as well. - 2/7/2022	1.00000	\$100.00	\$100.00
Parts	R-134a Refridgerant	4.00000	\$10.00	\$40.00
			Subtotal	\$140.00

Unit: VIN: FF2154D210056
JD 2154D
Engine: 17,306 Hours

Labor	\$100.00
Parts	\$40.00
Shop Supplies	\$5.00
Pre Tax Total	\$145.00
GST (5.0000% of \$145.00)	\$7.25
PST (7.0000% of \$145.00)	\$10.15
Total	\$162.40
Payments & Credits	\$0.00
Balance Due	\$162.40

GST# 753299528

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Lot 20

Page: 1 of 2

Invoice: 779
Date: 2/20/2023

Remit Payment To
Perih Heavy Duty Inc
RR1
Gilbert Plains, MB R0L 0X0, CA

Service Order	Terms	Due Date	Authorizer	Customer PO	Service Writer	Unit #
1708	Net 30	3/22/2023	Lowell Penner		Perih, Steven	

Item	Description	Quantity	Rate	Amount
Complaint: Diagnose and Repair Oil in Coolant				
Cause: Customer request				
Labor	Correction: Engine / Oil Cooler / Traveled to machine in the bush. Sucked oil from top of reservoir before draining coolant. Drained coolant and removed engine oil cooler assembly and adapter. Cleaned all gasket material and replaced cooler with new as well as all o-rings. Torqued to spec and installed back on engine. Filled with existing coolant and topped off with new as I left the bottoms of the pails out as it was contaminated. Machine could use a flush later. Ran engine to check for leaks. All okay. - Completed: 2/20/2023	4.25000	\$125.00	\$531.25
Parts	Oil Cooler	1.00000	\$455.39	\$455.39
Parts	O-Ring	2.00000	\$3.17	\$6.34
Parts	Gasket	1.00000	\$16.16	\$16.16
Parts	O-Ring	2.00000	\$3.46	\$6.92
Parts	Gasket	1.00000	\$18.15	\$18.15
Parts	O-Ring	1.00000	\$6.90	\$6.90
Parts	O-Ring	2.00000	\$3.96	\$7.92
Parts	Gasket	1.00000	\$14.59	\$14.59
			Subtotal	\$1,063.62
Drive to unit				
Labor	Drive to unit (Service Call)	0.75000	\$135.00	\$101.25
			Subtotal	\$101.25

Unit: VIN: FF2154D210056
JD 2154D
Engine: 18,506 Hours

Labor	\$632.50
Parts	\$532.37
Shop Supplies	\$25.00
Pre-Charge Subtotal	\$1,189.87
GST (5.0000% of \$1,189.87)	\$59.49
PST (7.0000% of \$1,189.87)	\$83.29
Total	\$1,332.65
Payments & Credits	\$0.00
Balance Due	\$1,332.65

GST# 753299528

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HOT 20

Invoice: 772

Date: 2/5/2023

Remit Payment To
Perih Heavy Duty Inc
RR1
Gilbert Plains, MB R0L 0X0, CA

Service Order	Terms	Due Date	Authorizer	Customer PO	Service Writer	Unit #
1747	Net 30	3/7/2023	Lowell Penner		Perih, Steven	

Item	Description	Quantity	Rate	Amount
Complaint: Replace Swing Gearbox Seal				
Cause: Customer request				
Labor	Correction: Hydraulics / Gearbox / Ordered part and loaded up service truck for job. Travel to Vimy to repair machine. Removed stump pan and drained swing cavity of grease/oil slurry. Removed lines and hoses. Unbolted swing gearbox assembly and hoisted from machine with crane. Cleaned swing cavity thoroughly. Removed old seal and replaced with new. Cleaned mating surface of snow and debris as well as bolt threads. Filled swing cavity with new grease. Customer supplied one case of their own grease as I was a bit short. Installed gearbox assembly and sealed with 515. Attached lines and hoses and bolted down. Filled gearbox with new customer supplied 75w90 gear oil. Ran to test and check for leaks. Double checked gearbox oil level and installed stump pan. Had two men on the job. - Completed: 2/5/2023	8.25000	\$125.00	\$1,031.25
Parts	Seal	1.00000	\$311.28	\$311.28
Parts	5 Gallon Pail Grease	1.00000	\$213.50	\$213.50
	Subtotal			\$1,556.03
Drive to unit				
Labor	Drive to unit (Service Call)	2.75000	\$135.00	\$371.25
	Subtotal			\$371.25
	Freight	1.00	\$42.80	\$42.80

Unit: VIN: FF2154D210056
JD 2154D
Engine: 18,003 Hours

Labor	\$1,402.50
Parts	\$524.78
Shop Supplies	\$62.50
Pre-Charge Subtotal	\$1,989.78
Freight	\$42.80
GST (5.0000% of \$2,032.58)	\$101.63
PST (7.0000% of \$2,032.58)	\$142.28
Total	\$2,276.49
Payments & Credits	\$0.00
Balance Due	\$2,276.49

GST# 753299528

Perih Heavy Duty Inc
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Invoice: 351
Date: 11/28/2021

Remit Payment To
Perih Heavy Duty Inc
RR1
Gilbert Plains, MB R0L 0X0, CA

Service Order	Terms	Due Date	Authorizer	Customer PO	Service Writer	Unit #
1458	Net 30	12/28/2021	Lowell Penner		Perih, Steven	
Item	Description	Quantity	Rate	Amount		
Complaint: Reseal Main Control Valve						
Cause: Customer request						
Labor	Correction: Hydraulics / Valve / Drive to machine on Saturday and split control valve in machine and completely reseal joint. Installed all new o-rings and replaced spool cap ones as well. Ran to test and discussed fuel leak with customer. - 11/28/2021	6.50000	\$100.00	\$650.00		
Parts	O-Ring	4.00000	\$5.7876	\$23.15		
Parts	O-Ring	16.00000	\$5.724	\$91.58		
Parts	O-Ring	12.00000	\$5.088	\$61.06		
Parts	O-Ring	12.00000	\$6.7416	\$80.90		
Parts	O-Ring	2.00000	\$8.0772	\$16.15		
Parts	O-ring	2.00000	\$1.98555	\$3.97		
				Subtotal	\$926.81	
Freight					\$30.00	

Unit: VIN: FF2154D210056
JD 2154D
Engine: 16,358 Hours

Labor	\$650.00
Parts	\$276.81
Shop Supplies	\$20.00
Pre Tax Total	\$976.81
GST (5.0000% of \$976.81)	\$48.84
PST (7.0000% of \$976.81)	\$68.38
Total	\$1,094.03
Payments & Credits	\$0.00
Balance Due	\$1,094.03

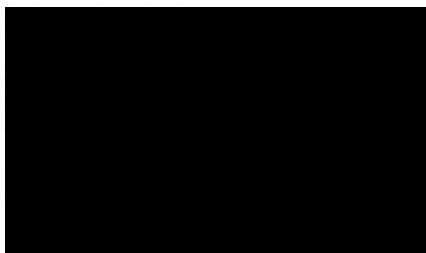
GST# 753299528

20

Perih Heavy Duty Inc
 RR1
 Gilbert Plains, MB R0L 0X0, CA
 perihhd@gmail.com
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Invoice: 210
 Date: 3/8/2021



Remit Payment To
 Perih Heavy Duty Inc
 RR1
 Gilbert Plains, MB R0L 0X0, CA

Service Order	Terms	Due Date	Authorizer	Customer PO	Service Writer	Unit #
1122	COD	3/8/2021	Lowell Penner		Perih, Steven	

Item	Description	Quantity	Rate	Amount
	Complaint: Diagnose and Repair Black Smoke, No heat in Cab, and Runs Rough			
	Cause: Customer request			

Item	Description	Quantity	Rate	Amount
Labor	Correction: Engine / Overhaul / Tested engine in yard and seen Number 1 and number 5 cylinder were performing poorly. Pulled engine from machine and brought into shop, washed and mounted to engine stand. Removed injectors with lines and layed out on shelf in order. Removed valve cover and set engine to #1 TDC. Removed valve train. Removed thermostat housing and alternator bracket from head. Removed head bolts middle bolts were all tight but both ends had loose bolts. Removed head to inspect and be sent away. Stripped head and set onto pallet. Inspected cylinders and pistons found that the cylinder liners had an excessive amount wear. There was a large ring groove that is not typical for this engine. Removed rod caps and pushed liners out with pistons attached, separated pistons from cylinders once removed. Liners were tapered and glazed quite badly. Removed connecting rods from pistons and placed in box to be sent away and checked. Cleaned out cylinder packing grooves in block and found chunks of rubber in behind the cylinders. Checked over thermostat housing and found that thermostat had deteriorated and the rubber from it was contaminating the cooling system. Removed lifters and cleaned lifter bores and cam and reinstalled into block. Removed vibration damper from crankshaft. Removed engine oil cooler, removed timing cover. Cleaned gasket material from timing cover and plate. Reinstalled timing cover with new gasket and Installed liners into block with new packings. Installed new pistons onto connecting rods and installed into engine and installed new connecting rod bolts and torqued to spec. Rolled in new main bearings and torqued to spec with new main cap bolts. Installed new oil pump onto front plate and torqued new nut to spec and peened nut in three places. Installed oil pan with new gasket used 515 sealant on the front cover and plate split and flywheel housing splits. Installed head gasket and installed head onto engine installed new head bolts dipped in oil. Installed push rods and rocker arm assembly torqued to spec and set valves used one new push rod as well. Installed rocker arm cover and installed new o-rings onto old injectors and installed into engine. Installed flywheel into flywheel housing and used new bolts and torqued to spec. Installed new water pump and gasket. Cleaned and resealed oil cooler and installed onto engine. Changed thermostat and cleaned up housing and installed. Removed engine from engine stand and installed into machine. Removed broken bolt from front mount on right hand side of engine and installed new bolts on mount brackets. Installed engine into machine. Reinstalled air and coolant pipes, wiring and attached hydraulic pumps. Installed muffler with new clamp on turbo. Installed shields as well. Filled with engine with new Break in oil and new coolant. Ran engine to test and check for leaks. No leaks but engine had a fuel knock that needed to be diagnosed. - 3/8/2021	54.00000	\$100.00	\$5,400.00
Parts	Cap Screw	14.00000	\$8.3545	\$116.96
Parts	Engine Overhaul Kit	1.00000	\$2,339.2383	\$2,339.24
Parts	Bolt Kit	1.00000	\$234.65295	\$234.65
Parts	Oil Pump	1.00000	\$907.63505	\$907.64
Parts	Nut	1.00000	\$1.89875	\$1.90
Parts	Oil Tube	1.00000	\$22.99115	\$22.99
Parts	Water Pump	1.00000	\$365.99535	\$366.00
Parts	Pulley	1.00000	\$930.55025	\$930.55
Parts	Washer	6.00000	\$0.64015	\$3.84
Parts	O-Ring	6.00000	\$2.72335	\$16.34
Parts	Thermostat	1.00000	\$37.59525	\$37.60

Item	Description	Quantity	Rate	Amount
Parts	Sealing Washer	6.00000	\$1.46475	\$8.79
Parts	Packing	4.00000	\$2.4087	\$9.63
Parts	Snap Ring	12.00000	\$2.96205	\$35.54
Parts	Screw	12.00000	\$13.888	\$166.66
Parts	Cap Screw	1.00000	\$10.25325	\$10.25
Parts	Push Rod	1.00000	\$10.49195	\$10.49
Parts	Clamp	1.00000	\$67.88845	\$67.89
Parts	Fuel Temperature Sensor	1.00000	\$183.0829	\$183.08
Parts	Hose	1.00000	\$75.9283	\$75.93
Parts	Pulley	1.00000	\$329.6494	\$329.65
Parts	Oil Filter	1.00000	\$30.0111	\$30.01
Parts	Bolt	6.00000	\$3.04885	\$18.29
Parts	Break in Oil 1 Gallon	2.00000	\$30.597	\$61.19
Parts	Break in Oil 5 Gallon	1.00000	\$143.7625	\$143.76
Parts	Celcius Premix 50/50 Coolant 3.78L	8.00000	\$16.99	\$135.92
Parts	Celcius Concentrate Coolant 3.78L	1.00000	\$19.99	\$19.99
Parts	Intake Valve	6.00000	\$20.00	\$120.00
Parts	Exhaust Valve	6.00000	\$28.00	\$168.00
Parts	Valve Spring	12.00000	\$6.00	\$72.00
Parts	Valve Stem Seal	12.00000	\$4.00	\$48.00
Parts	Valve Guide	12.00000	\$5.00	\$60.00
Parts	Bushing	6.00000	\$25.75	\$154.50
Parts	Head Work	1.00000	\$1,217.232	\$1,217.23
			Subtotal	\$13,524.51

Complaint: Repair Engine Missing

Cause: Customer request (Inspection)

Labor	Correction:	4.00000	\$100.00	\$400.00
	Fuel System / Fuel Lines / After engine was rebuilt and installed it was started and ran. Engine had a fuel knock and still missed on several cylinders. Ordered John Deere Reman injectors. Removed old injectors and sent in cores. Installed new ones and programmed trim codes to ECU. Ran engine and it now runs smooth and does not knock. - 2/21/2021			
Parts	Fuel Injector	6.00000	\$675.88	\$4,055.28
			Subtotal	\$4,455.28

Complaint: Diagnose and Repair Engine Codes

Cause: Customer request (Inspection)

Item	Description	Quantity	Rate	Amount
Labor	Correction: Electrical System / Wiring / After engine was ran and injectors were replaced. I diagnosed engine codes for fuel temperature sensor and coolant temp sensor. The codes were erratic and tested the wiring for both sensors from the ECU to the sensors themselves and could not find an issue in the harness. Followed schematic and seen that the both sensors share a common ground in the ECU. Removed ECU and tapped on it with the key on and was able to make the codes come and go. Suspect engine controller to be no good. Ordered a new Reman controller. Replaced controller and programmed with the latest John Deere payload file. Cleared codes and ran engine. Codes are all gone now and engine runs as it should. Suspect the failed ECU and the fuel temp and coolant temp codes have been causing the engine to not be running as it should be due to the incorrect inputs it was receiving. This was changing the way the controller fuels the engine and suspected that over time it was what caused the engine to wear so bad and in time cause it to smoke so black from the lack of compression. - 3/8/2021	7.50000	\$100.00	\$750.00
Parts	Engine Controller	1.00000	\$1,859.03505	\$1,859.04
			Subtotal	\$2,609.04
Freight				\$50.00

Unit: VIN: FF2154D210056
 JD 2154D
 Engine: 16,350 Hours

Labor	\$6,550.00
Parts	\$14,038.83
Shop Supplies	\$175.00
Pre Tax Total	\$20,813.83
GST (5.0000% of \$20,813.83)	\$1,040.69
PST (7.0000% of \$20,813.83)	\$1,456.97
Total	\$23,311.49
Payments & Credits	\$0.00
Balance Due	\$23,311.49

GST# 753299528