

Lot 17

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



Invoice: 523
Date: 2/21/2022

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 #
1378	Net 30	3/23/2022	Lowell Penner		Perih, Steven	

Item	Description	Quantity	Rate	Amount
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Complaint: Remove Front Differential to Repair Diff Lock

Cause: Customer request

Labor	Correction:	38.50000	\$100.00	\$3,850.00
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Front Axle & Steering / Front Axle / Went to machine in yard and diagnosed diff lock issue. Hooked up gauge and there was only 125psi in the diff lock circuit. When the front diff was capped off there was 640psi. Front diff leaking internally. Brought skidder into pole shed and used blade to lift up front end. Removed tires from front axle. Set unit onto blocks. Removed both front and rear belly pans and removed hydraulic lines for diff. Set up straps on both ends of axle and removed mounting trunions.

Dropped diff down and dragged out, Brought diff around to wash bay and cleaned off for disassembly. Drained oil out of diff and set onto floor in shop and removed final drive stubs from differential housing. Removed front trunion mount and rolled differential housing over to remove pinion carrier to remove differential from housing. Supported differential and removed both side bearing quills. Found that the left hand side bearing on the differential had excessive damage.

The damaged bearing was allowing the differential to move causing the seals to leak inside the diff lock quill. Checked over diff lock quill and found that there was a nick in the housing right on a seal ring that was possibly causing the seal housing to loose pressure as well. Ordered parts. Had a tough time getting bolts in as they were not available through the regular parts depots. Had to get in from other dealers and ship in. Got all parts and cleaned parts.

Assembled diff. Had some trouble during assembly as the new quill was an updated component and the assembly instructions were not clear. Pressure tested to be sure. Got preload on bearings set to .004". Set back lash to .008-.009".

Installed new seals, o-rings and thrusts. Assembled front housing and installed final drive axles with new bolts and torqued to spec. Installed diff back in machine and attached wheels. Torqued to spec as well.

Filled with new oil, attached drive shafts and hoses. Ran skidder to test. All ok. -
2/21/2022

Parts	Screw	8.00000	\$16.2316	\$129.85
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Item	Description	Quantity	Rate	Amount
Parts	Ring	2.00000	\$18.91155	\$37.82
Parts	Thrust Washer	2.00000	\$38.98405	\$77.97
Parts	Thrust Washer	4.00000	\$15.07065	\$60.28
Parts	O-Ring	1.00000	\$2.02895	\$2.03
Parts	Bearing Housing	1.00000	\$1,103.9007	\$1,103.90
Parts	O-Ring	1.00000	\$1.6492	\$1.65
Parts	O-Ring	2.00000	\$2.0181	\$4.04
Parts	Bearing Cone	1.00000	\$63.91735	\$63.92
Parts	Shim	4.00000	\$8.1809	\$32.72
Parts	Shim	4.00000	\$9.64565	\$38.58
Parts	Shim	2.00000	\$10.27495	\$20.55
Parts	Bearing Cone	1.00000	\$145.20555	\$145.21
Parts	Bearing Cup	1.00000	\$79.1399	\$79.14
Parts	O-Ring	2.00000	\$1.66005	\$3.32
Parts	Washer	24.00000	\$1.5841	\$38.02
Parts	Cap Screw	4.00000	\$16.31	\$65.24
Parts	Cap Screw	20.00000	\$16.30755	\$326.15
Parts	5 Gallon Phillips Trans Hydraulic	1.00000	\$78.8452	\$78.85
Parts	10 Liter Phillips Trans Hydraulic	1.00000	\$37.6884	\$37.69
			Subtotal	\$6,196.93

Complaint: Reseal Blade Lift Cylinder**Cause:** Customer request

(Inspection)

Labor	Correction: Hydraulics / Cylinder / Remove LH Blade lift cylinder. Disassemble and reseal. Install back on machine. - 2/16/2022	2.25000	\$100.00	\$225.00
Parts	Hydraulic Cylinder Seal Kit	1.00000	\$125.1656	\$125.17
Parts	Hydraulic Cylinder Seal Kit	1.00000	\$107.3038	\$107.30
			Subtotal	\$457.47

Freight

\$105.00

Unit: VIN: DW648GX590204
John Deere 648GIII
Engine: 9,227 Hours

Labor	\$4,075.00
Parts	\$2,579.40
Shop Supplies	\$90.00
Pre Tax Total	\$6,849.40
GST (5.0000% of \$6,849.40)	\$342.47
PST (7.0000% of \$6,849.40)	\$479.46
Total	\$7,671.33
Payments & Credits	\$0.00
Balance Due	\$7,671.33

GST# 753299528

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17

Invoice: 239
Date: 6/27/2021

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

Service Order	Terms	Due Date	Authorizer	Customer PO	Service Writer	Unit #
1197	COD	6/27/2021	Lowell Penner		Perih, Steven	

Item	Description	Quantity	Rate	Amount
Complaint: Replace Engine Mounts				
Cause: Customer request				
Labor	Correction: Engine / Motor Mounts / Remove ROPS, hood, and shields to gain access to engine. Remove fan from fan hub and remove all shroud shields. Remove a/c condenser and compressor and move out of the way. Loosened off all engine mounts and lifted front of engine to change front mounts, set front of engine down. Lifted rear of engine to replace mounts. Had to remove rear mounts completely from engine to change mounts. Set engine down and tightened mounts ran unit to check for vibration. Reinstalled hood shields, Rops and side panels. - 6/27/2021	11.00000	\$100.00	\$1,100.00
Parts	Isolator	2.00000	\$174.7284	\$349.46
Parts	Isolator	1.00000	\$135.3646	\$135.36
Parts	Isolator	1.00000	\$135.3646	\$135.36
			Subtotal	\$1,720.18

Complaint: Reseal LH Front Final Drive Split				
Cause: Customer request				
Labor	Correction: Front Axle & Steering / Wheel Seals / Drained Front Diff oil. Removed LH front wheel and un-bolted LH front final drive housing. Cleaned sealing surface and ground out damaged areas. Resealed housing with high flex sealant. Installed housing with new hardware and torqued to spec. Installed wheel and set machine down. Torqued wheel bolts and filled diff with new oil. - 6/27/2021	5.00000	\$100.00	\$500.00
Parts	5 Gallon Phillips Trans Hydraulic	1.00000	\$78.8452	\$78.85
Parts	10 Liter Phillips Trans Hydraulic	1.00000	\$37.6884	\$37.69
Parts	Cap Screw	12.00000	\$16.06885	\$192.83
Parts	Washer	12.00000	\$1.74685	\$20.96
			Subtotal	\$830.33

Item	Description	Quantity	Rate	Amount
	Freight			\$15.00

Unit: VIN: DW648GX590204
 John Deere 648GIII
 Engine: 8,718 Hours

Labor \$1,600.00

Parts \$950.51

Shop Supplies \$70.00

Pre Tax Total \$2,635.51

GST (5.0000% of \$2,635.51) \$131.78

PST (7.0000% of \$2,635.51) \$184.49

Total \$2,951.78

Payments & Credits \$0.00

Balance Due \$2,951.78

GST# 753299528

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Invoice: 247
Date: 6/29/2021

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Service Order	Terms	Due Date	Authorizer	Customer PO	Service Writer	Unit #
1269	COD	6/29/2021	Lowell Penner		Perih, Steven	
Item	Description	Quantity	Rate	Amount		
Complaint: Repair Damper Fell Off Crankshaft						
Cause: Customer request						
Labor	Correction: Engine / Crankshaft / Inspected broken balancer and made parts list. Came back at a later date with parts and removed broken bolts from crankshaft. Cleaned crank and threads. Installed new balancer with new pulley and bolts. Torque to spec of 52ft/lbs. Blue loctited bolts. Installed shields and belt. Test drove machine to test diff lock. Suspect issue is in the front diff and that the engage pressure might be low. It will be brought in after the season is done for rest of work and check over. - 6/29/2021	4.00000	\$100.00	\$400.00		
Parts	Torsional Damper	1.00000	\$670.53	\$670.53		
Parts	Torsional Damper Pulley	1.00000	\$180.16425	\$180.16		
Parts	Bolt	8.00000	\$3.9928	\$31.94		
				Subtotal	\$1,282.63	
Complaint: Repair Oil Leak on Engine						
Cause: Customer request						
Labor	Correction: Engine / Gaskets / Will repair oil leak at a later date as well as perform valve set - 6/29/2021	0.00100	\$100.00	\$0.10		
Parts	Gasket	1.00000	\$77.1218	\$77.12		
Parts	O-Ring	6.00000	\$1.6709	\$10.03		
				Subtotal	\$87.25	
Drive to unit						
Labor	Drive to unit (Service Call) RR#2, Grandview, MB	3.00000	\$110.00	\$330.00		
				Subtotal	\$330.00	

Unit: VIN: DW648GX590204
John Deere 648GIII
Engine: 9,118 Hours

Labor	\$730.10
Parts	\$969.78
Shop Supplies	\$40.00
Pre Tax Total	\$1,739.88
GST (5.0000% of \$1,739.88)	\$86.99
PST (7.0000% of \$1,739.88)	\$121.79
Total	\$1,948.66
Payments & Credits	\$0.00
Balance Due	\$1,948.66

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