

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



Invoice: 195
Date: 2/15/2021

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 #
1105	COD	2/15/2021	Lowell Penner		Perih, Steven	

Item	Description	Quantity	Rate	Amount
Complaint: Diagnose and Repair Check Engine Light and Low Power				
Cause: Customer request				
Labor	Correction:	20.00000	\$100.00	\$2,000.00
	Engine / Fuel / Checked codes and found several codes for metering rail 1 pressure mis match. Test drive truck to verify code and replicate complaint. While truck was under load the fuel rail pressure would drop substantially until load was removed. Engine had the fuel supply pump replaced and the fuel rail relief changed as well. Tested relief again to verify and it was good. Tested supply fuel and all fuel pressures. Performed all tests that Cummins has related to fuel issues. System repeatedly failed the leakage test. Suspected the fuel actuator was faulty. Customer brought another truck over that had the same part on it. Swapped parts and tested. Actuator did not repair issue.			
	Spent a lot of time researching and performing all tests thoroughly. Seemed to have excessive leakage in the injection pump as all leakage tests passed for the injectors and the regulator housing. Decided to remove injection pump and test. Once removed I disassembled it and found the front pumping plunger to be seized in the bore and the top of it was damaged. Priced out a new pump and ordered a genuine Cummins pump at Peterbuilt. Timed fuel pump to engine and installed with new gasket and all sealing washers. Test drove truck and placed under load. Fuel rail pressure is no holding as it should and code is gone. Clean and check for leaks. - 2/15/2021			
Parts	Fuel Pump	1.00000	\$5,974.536	\$5,974.54
Parts	Gasket	1.00000	\$45.37	\$45.37
Parts	Washer	6.00000	\$5.25	\$31.50
Parts	Washer	8.00000	\$8.25	\$66.00
			Subtotal	\$8,117.41

Complaint: Replace A/C Compressor
Cause: Customer request (Inspection)

Item	Description	Quantity	Rate	Amount
Labor	Correction: Chassis / Air Conditioning & Heating / Test A/C and pressures. Unit had pressure but would not turn compressor on. Found pressure switch to be faulty. Switch failed because compressor clutch coil had failed causing stress on the switch. Replaced switch as well as A/C compressor along with receiver drier. Tested unit and found pressures to be not quite right and unit was not cooling quite well enough. Expansion valve is the issue. Ordered in valve and replaced. Valve was very hard to replace as the fittings were seized pretty bad, freed up the fittings and never seized. New valve was faulty so got a new one in to replace it with. Had to charge the system 2 separate times. - 2/15/2021	7.50000	\$100.00	\$750.00
Parts	Receiver Drier	1.00000	\$64.3365	\$64.34
Parts	o-rings	1.00000	\$15.62	\$15.62
Parts	Switch	1.00000	\$114.23	\$114.23
Parts	A/C Compressor	1.00000	\$435.50	\$435.50
Parts	R-134a Refridgerant	10.00000	\$10.00	\$100.00
			Subtotal	\$1,479.69

Freight				\$50.00
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Unit: VIN: 1XKWD40X7DR958948

2013 Kenworth W900 Series

Chassis: 475,628 Miles

Engine: 4,685 Hours

Labor \$2,750.00

Parts \$6,847.10

Shop Supplies \$82.50

Pre Tax Total \$9,729.60

GST (5.0000% of \$9,729.60) \$486.48

PST (7.0000% of \$9,729.60) \$681.07

Total \$10,897.15

Payments & Credits \$0.00

Balance Due \$10,897.15

GST# 753299528

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Lot 3

Invoice:

778

Date:

2/20/2023

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 #
1578	Net 30	3/22/2023	Lowell Penner		Perih, Steven	
Item	Description	Quantity	Rate	Amount		
Complaint: Replace Turbocharger						
Cause: Customer request						
Labor	Correction: Engine / Turbo / Opened hood and had to shovel snow away from underneath truck to fit pale underneath lower rad hose to drain coolant out to change turbo. Removed all oil and coolant lines from actuator and turbo. Removed intake and exhaust pipes and all electrical from turbo to truck harness. Removed turbo mount bolts and removed turbo. Changed over fittings from old turbo to new and used new orings on the fittings into the turbo. Cleaned off manifold with wire wheel and installed new turbo onto manifold with old nuts and tightened. Used all old sealing washer on coolant banjo bolts and tightened. Filled engine back up with coolant and ran wabasto to check for coolant leaks and warm engine for start up. Reinstalled all oil lines with new gasket for turbo drain line provided with turbo. Reinstalled intake and exhaust pipes and electrical to turbo. Plugged into truck with computer and preformed turbo charger actuator calibration, turbo passed calibration. Ran engine and checked for leaks and found none. Zip tied up all electrical away from turbo and checked over codes on computer found no active codes just stored codes took a picture of list and cleared codes. Left truck running as per customers request and cleaned up. - Completed: 2/20/2023	4.25000	\$125.00	\$531.25		
Parts	-8 ORB O-ring	1.00000	\$3.19	\$3.19		
Parts	-6 ORB O-ring	1.00000	\$2.65	\$2.65		
Parts	-6 ORFS O-ring	1.00000	\$2.38	\$2.38		
Parts	-8 ORFS O-ring	1.00000	\$2.48	\$2.48		
Parts	Reman Turbo ISX	1.00000	\$5,095.60	\$5,095.60		
Parts	Electronic Actuator	1.00000	\$2,756.97	\$2,756.97		
			Subtotal	\$8,394.52		

Item	Description	Quantity	Rate	Amount
Complaint: Repair A/C				
Cause: Customer request				
(Inspection)				
Labor	Correction: Chassis / Air Conditioning & Heating / A/C clutch would not engage. Tested all switches and electrical connections and found the problem to be the freeze switch not flowing power through it. Took a while to trace the circuit down. Had switch and replaced the next day. Removed air pipes from turbo and connecting from air filters and removed air box screws and removed hold down screws for air conditioning freeze switch. Replaced freeze switch with new and bolted air box back up with anti-seize on threads. Reinstalled air pipes and tightened clamps. Reinstalled glove box in cab and all dash panels - Completed: 2/20/2023	5.50000	\$110.00	\$605.00
Parts	Freeze Switch	1.00000	\$118.30	\$118.30
			Subtotal	\$723.30
Drive to unit				
Labor	Drive to unit (Service Call)	2.25000	\$135.00	\$303.75
			Subtotal	\$303.75
Freight		1.00	\$110.00	\$110.00
Unit: VIN: 1XKWD40X7DR958948			Labor	\$1,440.00
2013 Kenworth W900 Series			Parts	\$7,981.57
Chassis: 594,765 Miles			Shop Supplies	\$30.00
Engine: 7,278 Hours			Pre-Charge Subtotal	\$9,451.57
			Freight	\$110.00
			GST (5.0000% of \$9,561.57)	\$478.08
			PST (7.0000% of \$9,561.57)	\$669.31
			Total	\$10,708.96
			Payments & Credits	\$0.00
			Balance Due	\$10,708.96

GST# 753299528