



Mid Plains Diesel Ltd

Box 1123, Kindersley, SK S0L1S0
Phone: (306) 463-6469



Invoice #: 89635
Invoiced: 03/14/2019

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Customer:

Vehicle:

2011 Peterbilt 389 D40
Eng: ISX15 SN 7942923.. Tran: RTLO18918B
VIN: 1XPXD49XXBD121414
Mileage In: 1025183 Out:
P Date: 799172 Clr:
Hours: 21102
Lic: 246 JYL St: SK Fleet:109

Repair Order:

Service Writer: J Wilson
PO Number:
Date In: 02/20/2019
Date Out: 03/08/2019

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Customer Concern: Check for coolant in exhaust

Labor:	Description	Hours	Extended
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Bring unit inside, found coolant in the exhaust, remove egr outlet pipe, has no coolant in it, bubble test cooling system, it failed test, cylinder head has to come off. Drain coolant, remove radiator assembly, disconnect all fuel, coolant and exhaust parts, remove front gear cover, remove cam gear, unbolt and remove valve cover and rocker shafts. remove fuel injectors, remove camshaft, found one lobe on the cam to have scrubbed off, need to replace cam shaft, unbolt and remove cylinder head. Inspect cylinder head, found many cracks in it, clean engine and check liner heights, found #5 and 6 liner counter bores to have failed. Drain engine oil, remove oil pan, unbolt all connecting rods from crank shaft, push pistons out, pull liners and clean engine block for counter bore machining. Clean and inspect all rockers, found 2 rockers that need replacing, clean and re-o-ring all injectors, inspect the oil pump and turbo, they are good, get new parts ready for install. Install new liners, double check liner heights after machining, they are good, install pistons, install new main and rod bearings, torque caps to spec. Swap all fittings from old head to new head, install cylinder head, torque bolts to spec, install injectors with new fuel supply tubes, install new cam shaft, install cam gear and set gear lash. Install rocker shafts, do a top set, install exhaust stuff, connect all fuel and coolant lines, put valve and gear covers on, put oil pan on, put new oil filter on and fill engine with fresh oil, prime fuel system and start engine. Engine runs very normal, put rad assembly on, connect hoses, replace thermostat, fill cooling system with water, bring engine up to temp, found no leaks, engine runs very good. Found the low coolant light to be on all the time, checked circuit and sensor, both are good, the float inside the coolant reservoir is no good. Change reservoir, low coolant light went out, try to get webasto to work, it is no good, remove old webasto, mount and tie in new webasto. Put coolant in cooling system, run webasto, it works good, take truck for a road test, everything works normal and engine runs good, park unit outside, clean up old parts and tools from job.

76.00 11704.00

Labor Sub Total: 11704.00

Parts:	Part Num	Description	Price Ea.	Qty	Extended
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	125-12D	Brass Fitting	2.84	2.00	5.68
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All estimates are for labour only. Materials additional. This company does not assume any responsibility whatever for vehicles or equipment left for repairs, storage or other purposes or for articles left in same. Vehicles driven by our employees at owners risk. 2% per month/24% per annum on all past due accounts. This is the only itemized account rendered. Accounts due upon receipt. Price shown does not prejudice the company's right to charge tax at a future date if assessed by the taxing authorities.
GST#124535048

Parts: 22593.62
Labor: 11704.00
Sublets: 2592.78
Misc: 250.00

Subtotal: 37140.40
GST: 1857.02
PST: 2209.68
TOTAL: 41207.10
Balance: 41207.10

Customer Signature

Date

16-734	Extended Life Antifreeze	19.02	2.00	38.04
2882561	Pressure Sensing Tube	43.04	1.00	43.04
2894829	Injector Fuel Supply Connector	100.73	6.00	604.38
3678506	Main Cap Bolts	25.61	20.00	512.20
3678804	Flange Head Cap Hex Screw	18.95	4.00	75.80
3679037	Hex Flange Screw	12.07	6.00	72.42
3682627	Crankshaft Pulley	110.78	1.00	110.78
3682673	Thermostat Housing Gasket	15.60	1.00	15.60
3685173	Oil Seal	73.20	1.00	73.20
3687058	Piston Cooling Nozzle	36.51	6.00	219.06
3688012	Oil Drain Tube	56.05	1.00	56.05
4101884	Vibration Damper	927.24	1.00	927.24
4298628	Camshaft	2578.15	1.00	2578.15
4318947	Thermostat	82.90	1.00	82.90
4356434-C	Cylinder Head Core (4828)	996.51	-1.00	-996.51
4356434-C	Cylinder Head Core (4828)	996.51	1.00	996.51
4356434RX	Cylinder Head	7375.04	1.00	7375.04
49302	Windshield Washer Fluid	4.60	1.00	4.60
5132155	Thermostat Seal	12.65	1.00	12.65
51550	Anaerobic Flange Seal	39.58	1.00	39.58
5298564	Shim	70.65	6.00	423.90
5484229	Rocker Lever	147.32	1.00	147.32
5484230	Rocker Lever	162.29	1.00	162.29
5526-075	Silicone Heater Hose 3/4	3.41	8.00	27.28
575.1023	Coolant Reservoir - Peterbilt	297.90	1.00	297.90
705-1050	Lined Hose Clamp	3.27	6.00	19.62
705-1053	Lined Hose Clamp	3.27	2.00	6.54
83-8004	1IN Split Loom	0.79	3.00	2.37
89120	Idler Tens Pulley	89.95	1.00	89.95
923369	Engine Heater	1084.04	1.00	1084.04
9925	Elbow	6.50	1.00	6.50
AF4197	Air Filter	108.25	2.00	216.50
BD1019	Brake Clean	4.59	6.00	27.54
DHP15BLK	15W40 Bulk	3.36	48.00	161.28
EC7501	4L Extended Life Antifreeze Premix 50/50	14.93	12.00	179.16
Enviro	Environmental Fee	0.15	48.00	7.20
Enviro Fee	Enviro Fee	0.96	12.00	11.52
Enviro Fee	Enviro Fee	0.96	2.00	1.92
Enviro Fee - 1	Enviro Filter Fee - .5	0.50	1.00	0.50
Enviro Filter Fee -	Enviro Filter Fee - 2	1.00	1.00	1.00
Enviro Filter Fee -	Enviro Filter Fee - 2	1.00	1.00	1.00
FF5776	Fuel Filter	43.00	1.00	43.00
FG6500	27MMORB X 1/2FP	40.51	2.00	81.02
G384-125	Silicone Rad Hose 1 1/4	1.08	1.00	1.08
IF1758/0458CRB	ISX Inframe Kit	6670.00	1.00	6670.00
LF14000NN	Oil Filter	38.60	1.00	38.60
WF2127	Water Filter	27.82	1.00	27.82
X124-D	Extruded 45 Degree Brass Elbow 1/2	5.18	2.00	10.36

Parts Sub Total: 22593.62

Sublets:	Description	Price	Extended
	Incoming Freight	312.50	312.50

Sublets Sub Total: 312.50

Misc:	Description	Sold Price	Qty	Extended
	Shop Supplies			250.00

Misc Sub Total: 250.00

Job Sub Total: 34860.12

Sublets:	Description	Price	Extended
	Cut Cylinder Block	2280.28	2280.28

Sublets Sub Total: 2280.28