



PBX Truck Service
Box 26
Blumenort, MB R0A 0C0
204-326-3155



Peterbilt of Steinbach
Independent Parts & Service Provider

PACCAR



Independent Field Service
Representative



Invoice: **0196395.02**
Date / Hour: 7/17/2023 1:51:02PM
Repair Order: 96395
Customer: 1000
Branch: 1
Total Invoice: \$ 54,255.33
Charge

Page 1 of 5

Customer P/O:

Add User: WNeufeld

Open Date: 06/01/2023

Completion Date: 07/17/2023

Salesperson: House

Unit Number: 9853

Model Year: 2002

Make/Model: PETERBILT 379

Type: Truck

VIN: 1XP5DB9X52N579853

Meter: 684360 Kilometers

Task: 1 45-000000 Engine System

Department: Service

Complaint: Customer says the engine is pushing a lot of coolant and possible faulty head gasket and head / customer says to go ahead with
Platinum rebuild

Cause: Engine is pushing coolant and has a faulty head gasket and customer reported to get a platinum kit installed



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Correction: Drain cooling system, disconnect batteries, remove air--air clamps, boots and piping. Loosen clamps and remove radiator hoses, coolant lines from compressor and at block, also, remove oil pressure and return lines from turbo. Connect a/c equipment, evacuate system. Undo exhaust clamp and separate exhaust pipe from turbo. Remove turbo mounting hardware and pull turbo from engine compartment. Access and turn out exhaust manifold bolts and pry loose from cylinder head and remove, send manifold for re-facing. Disconnect engine harness from sensors and solenoids affecting component removal, disconnect alternator, release ties and move engine harness away from working area. Loosen upper and lower radiator hose clamps, pull off hoses. Remove bolts from cooling fan hub, loosen tension on belt, slip belt from pulleys, remove alternator and compressor mounting bolts, pull out alternator and move compressor aside. Take out water temperature housing bolts and separate from engine. Remove bolts from fan hub, pull out fan and fan hub. On LH side, remove air compressor coolant lines and p/s reservoir bracket Recover freon and remove lines , move reservoir aside and take off compressor. Remove condenser mounting bolts, swing condenser aside. Connect lift, remove radiator mounting bolts, undo supports, raise and guide assembly from engine compartment. Loosen and take out valve cover bolts and pull off valve covers. Back off rocker adjusters, remove rocker shaft bolts and pull out assemblies. Disconnect injectors and compression brakes. Access and remove bolts from riser, pry loose from cylinder head and set onto work bench. Take out compression brake assemblies. Remove front engine cam gear cover, rotate engine damper, align gear timing marks with corresponding marks on gear cover, loosen and turn out idler gear mounting bolt and slide out through access. Repeat same procedure for cam gear. Remove fuel lines, back off cylinder head bolts, remove bolts and attach lift to cylinder head. Pry loose from block, raise and set onto work bench for inspection, remove spacer plate. Inspect and found cylinder head cracked. Clean and buff block deck, inspect liners and to bore contact, liners moving in bores. Contact customer with results and recommended repair. Was decided to replace cylinder head and do complete inframe rebuildPlatinum over hauly kit , Drain engine oil, remove oil pan and block stiffener plate. Undo oil pump pick up and pump. Access and remove oil nozzles. Mark individual connecting rod caps and remove, push pistons free from liners. Repeat for all cylinders. Using puller, remove liners. Had liner bores professionally measured and machined. Wash and clean complete block, blow through oil galleries. Remove damper pulley retaining bolts, attach puller and remove damper pulley, take out lower engine cover. Undo air compressor mounting bolts, pull out compressor from rear of structure. Clean mating surface and install , also replace front structure gasket kit and main front seal and dampner under crank shaft R&R bolts and cap, slide bearing shells from cap. Roll upper shell from between block and journal, lube and roll in new bearing shell, renew cap shell, install and torque main bearing cap to specs. Rotate crank and repeat procedure for remaining main bearing journals, including thrust bearings. Slide o-rings onto new liners, press liner/piston assemblies into bores untill liners seated. Guide connecting rod, while pushing piston into liner until rod rests on journal, install connecting rod caps with new bearing shells and torque to specs, rotate crankshaft and repeat procedure for remaining liners and pistons, reinstall oil nozzles. Wash removed components, blow dry, prime and paint exposed metal using cat yellow. Also, wash pick up tubes clear of sludge and carbon. Install new oil pump and using new o-rings, reinstall pickup and tubes. Mount and secure block stiffener and oil pan, with new gasket. Renew front main seal and gasket on lower cover, reinstall cover and new damper pulley. Clean and Place spacer plate, with new gaskets, onto block deck. Remove camshaft from old cylinder head and remaining components, install into rebuilt head and transfer necessary components. Attach lift, raise and set onto deck, aligning holes with dowels. Lube and insert new head bolts, torque to spec and in sequence as per manual. Press in new injectors with new o-rings, record trim codes. Place riser onto cylinder head, with new gasket and torqued to specs. Align rocker shaft with cam lobes and valves, install mounting bolts and torque. Press out cam idler gear bearing and install new. Mount and torque cam gear, checking gear timing, install idler gear and set back lash, renew seal and install cam gear cover. Perform complete valve set, install j-brake heads, renew injector harness. Install valve covers, renew gaskets and install valve covers. To renew water pump and oil cooler, remove bolts securing pump and flange to engine oil cooler and cooler to engine block flange also resealed oil filter base with new o rings , take out components. Wash and clean components, paint Cat yellow. Clean all mating surfaces reinstall flanges, mount new cooler and water pump. Remove thermostats from water temperature housing, install new thermostats and mount water temperature housing to engine using new gasket. Route engine wiring harness connectors to intended components, plug in connectors and secure harness. Align exhaust manifold and new gasket with cylinder head, torque to specs. Position turbo and gasket to mounting holes, secure and connect oil pressure and return lines. Align exhaust pipe to turbo, secure using new clamp. Mount and secure accessory drive bracket, install alternator and a/c compressor. Reinstall fan hub and fan, route belts onto pulleys. Lay out engine harness, connecting sensors and components as necessary, secure harness. Clean battery cable, starter cable contacts, battery posts and all major ground connections at frame. Connect alternator and batteries. Connect heater hoses and renew coolant hoses at air compressor.

When radiator was out we washed out all rads reassemble , raise and set rad into mounts, attach supports and secure, tighten all mounting bolts. Align condenser mounting holes, install bolts and tighten. Connect air compressor oil and coolant lines, with new seals. Attach radiator hoses and secure using clamps, mount p/s reservoir. Renew oil and fuel filter, fill crankcase. Install air--air piping and boots, secure clamps. Connect lap top, access program and install new injector trim codes. Fill cooling system, prime fuel lines, start and run engine, monitor engine operation while reaching operating temperature. Check for leaks, secure any loose hoses and wiring, connect a/c equipment, vaccum system and check for leaks by shutting off pump, and allow system to reset for

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predetermined allotted time, checking gauge pressures for changes. No change in readings after time elapsed, no leaks suspected, add refridgerant oil and charge system blew a a/c line and replace line to condensor and charge again and Send for road test, monitor engine gauges and performance with good results, return to shop and check over repair, top up fluids. Unit now ready to be put back into service.

Supp. Part	Description / Ref Number	U/M	Quantity	Price	Extended Price
07-02552	GROMMET RAD BRACE	EA	4.0	\$22.41	\$89.64
0R9056	OIL COOLER	EA	1.0	\$2,668.05	\$2,668.05
0R9056-C	OIL COOLER CORE	EA	1.0	\$644.92	\$644.92
0R9056-C	OIL COOLER CORE	EA	-1.0	\$644.92	\$(644.92)
1/2FW	FLAT WASHER GR8	EA	1.0	\$0.33	\$0.33
1/2LW	LOCK WASHER GR8	EA	1.0	\$0.28	\$0.28
1/2X1 1/4	BOLT UNC GR8	EA	1.0	\$0.80	\$0.80
1/4FW	FLAT WASHER GR8	EA	4.0	\$0.10	\$0.40
1/4NUT-L	LOCKNUT UNC NYLOCK	EA	2.0	\$0.12	\$0.24
1/4X1	BOLT UNC GR8	EA	2.0	\$0.27	\$0.54
1018468	BEARING SLEEVE	EA	1.0	\$108.79	\$108.79
110-BA	BRASS BUSHING	EA	1.0	\$0.92	\$0.92
1280331	HOSE 90'	EA	1.0	\$15.17	\$15.17
129-12	HOSE BARB UNION 3/4"	EA	1.0	\$4.22	\$4.22
13-03096	GROMMET AIR-AIR RAD	EA	4.0	\$28.55	\$114.20
1304698	BEARING SLEEVE	EA	1.0	\$101.37	\$101.37
1317123	BEARING SLEEVE	EA	1.0	\$79.78	\$79.78
1678126	VIBRATION DAMPER	EA	1.0	\$1,385.45	\$1,385.45
1891814	OIL COOLER GASKET KIT	EA	1.0	\$439.98	\$439.98
1B3867	BEARING	EA	2.0	\$63.96	\$127.92
20R7822	PLATINUM KIT	EA	1.0	\$31,913.75	\$31,913.75
20R7822-C	PLATINUM KIT CORE	EA	1.0	\$13,343.72	\$13,343.72
20R7822-C	PLATINUM KIT CORE	EA	-1.0	\$13,343.72	\$(13,343.72)
2341633	KIT FRONT STRUCTURE	EA	1.0	\$1,175.29	\$1,175.29
24610	O-RING A/C	EA	1.0	\$4.13	\$4.13
24612	O-RING A/C	EA	2.0	\$4.00	\$8.00
3/4NUT-L	LOCKNUT UNC NYLOCK	EA	2.0	\$0.31	\$0.62
3/4X4 1/2	BOLT UNC GR8	EA	2.0	\$7.75	\$15.50
3/8FEW	FENDER WASHER	EA	8.0	\$0.40	\$3.20
3/8FW	FLAT WASHER GR8	EA	17.0	\$0.11	\$1.87
3/8NUT-L	LOCKNUT UNC NYLOCK	EA	4.0	\$0.21	\$0.84
3/8X1 1/2	BOLT UNC GR8	EA	3.0	\$0.63	\$1.89
3/8X2	BOLT UNC GR8	EA	5.0	\$0.68	\$3.40

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3/8X4	BOLT UNC GR8	EA	5.0	\$1.53	\$7.65
33262	EXH CLAMP 5" S/S	EA	2.0	\$14.22	\$28.44
469001(B460505)	PAINT GLOSS BLACK	EA	1.0	\$18.66	\$18.66
5/16FW	FLAT WASHER GR8	EA	8.0	\$0.11	\$0.88
5/16NUT-L	LOCKNUT UNC NYLOCK	EA	4.0	\$0.15	\$0.60
5/16X1	BOLT UNC GR8	EA	4.0	\$0.32	\$1.28
5521-5(R1185-5)	HELICOIL 5/16-UNC	EA	1.0	\$4.65	\$4.65
5900195(4795400)	PAINT YELLOW CAT	EA	4.0	\$27.79	\$111.16
7625-001N	CABLE BATTERY JUMPER BLK	EA	1.0	\$28.01	\$28.01
83-6021	TIES NYLON CABLE	EA	25.0	\$0.20	\$5.00
83-6029	TIES NYLON CABLE	EA	30.0	\$0.35	\$10.50
83-8004	LOOM 1"WIRE	EA	10.0	\$0.89	\$8.90
9590	V-BELT	EA	2.0	\$34.23	\$68.46
B2-JCFX-0606	FITTING HYDRAULIC	EA	2.0	\$7.44	\$14.88
B2-JCFX-0808	FITTING HYDRAULIC	EA	1.0	\$8.91	\$8.91
B2-JCFX45-0606	FITTING HYDRAULIC	EA	1.0	\$18.30	\$18.30
B2-JCFX90-0606	FITTING HYDRAULIC	EA	1.0	\$15.91	\$15.91
B2-JCFX90-0808	FITTING HYDRAULIC	EA	1.0	\$17.20	\$17.20
B9226-0325TRP	CLAMP HOSE	EA	1.0	\$15.42	\$15.42
BV2103-D	BRASS BALL VALVE	EA	1.0	\$11.92	\$11.92
CHB100	PAINT GREY PRIMER	EA	1.0	\$26.09	\$26.09
CT300LTRP	CLAMP HOSE	EA	4.0	\$19.65	\$78.60
D9027-3125	A/C LINE HARDLINE ASSY	EA	1.0	\$441.00	\$441.00
EC7501	ANTIFREEZE PREMIX E/L RED	EA	12.0	\$17.87	\$214.44
ET-10	HOSE CLAMP SILICONE	EA	12.0	\$2.30	\$27.60
ET-16	HOSE CLAMP SILICONE	EA	2.0	\$2.32	\$4.64
EXH5"/EF5018S	5" FLEX PIPE S/S 18"	EA	1.0	\$82.55	\$82.55
HOS/5515-250	SILICONE RAD HOSE 2-1/2"	inch	14.0	\$3.63	\$50.82
HOS/5515-300	SILICONE RAD HOSE 3"	inch	12.0	\$4.36	\$52.32
HOS/5526-062X250	HOSE HEATER SILICONE-5/8"	FT	10.0	\$6.90	\$69.00
HOS/5526-075X250	HOSE HEATER SILICONE-3/4"	FT	5.0	\$7.09	\$35.45
HOS/5526-100X50	HOSE HEATER SILICONE- 1"	EA	3.0	\$12.50	\$37.50
HOS/SR2SN-06X250RL	HOSE HYDRAULIC-3/8"	FT	5.0	\$5.45	\$27.25
HOS/SR2SN-08X250RL	HOSE HYDRAULIC-1/2"	FT	2.0	\$6.60	\$13.20
JCM08-OBM08	FITTING HYDRAULIC	EA	1.0	\$3.76	\$3.76
KLF313(2416F)	BRAKE CLEANER	EA	4.0	\$5.06	\$20.24
OIL/15/40-SHELL	OIL ROTELLA T4	liter	43.0	\$6.14	\$264.02

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OIL/DEXRON(KL-TF1040)	ATF - P/S OIL	EA	2.0	\$13.04	\$26.08
P037ST-PAS	SNAP RING HOOD	EA	1.0	\$2.40	\$2.40
P062STPA	SNAP RING HOOD	EA	1.0	\$6.49	\$6.49
PEC/05-09057SPL	WASHER-MOTOR MNT	EA	2.0	\$18.46	\$36.92
PEC/05-16401	MOUNT F/ENGINE	EA	2.0	\$44.77	\$89.54
PEC/F31-6063(JC12000,18-04171)	ACCUMALATOR A/C	EA	1.0	\$157.50	\$157.50
TO-5254	FLAPPER WHEEL	EA	1.0	\$4.71	\$4.71
TO-5310	FLAPPER WHEEL	EA	1.0	\$5.96	\$5.96
TR22545	V-BELT	EA	2.0	\$37.56	\$75.12
TS16R16	CLAMP HOLD DOWN	EA	1.0	\$1.40	\$1.40
TS17R48	CLAMP HOLD DOWN	EA	2.0	\$3.72	\$7.44
Freight	FREIGHT		1.0	\$20.00	\$20.00
Sublet	RESURFACE EXHAUST MANIFOLD		1.0	\$252.00	\$252.00
Sublet	COUNTERBORE BLOCK		1.0	\$1,500.00	\$1,500.00

Detail Tax Info:

GST Sales Tax #131808628	\$2,583.59
PST Sales Tax	\$0.00
Total:	\$2,583.59

Total Parts:	\$40,525.34
Total Labor:	\$8,640.00
Total Miscellaneous:	\$1,772.00
Total Shop Supplies:	\$734.40
Invoice Subtotal:	\$51,671.74
Total Tax:	\$2,583.59
Total Invoice:	\$54,255.33

<u>Payment Method</u>	<u>Terms</u>	<u>Due Date</u>
Charge	Net due 15th	8/15/2023

Authorized By _____

I authorize the above repair work, including sublet work, to be done along with any necessary materials. An express mechanic's Lien is hereby acknowledged on the above listed vehicle to secure the amount of indebtedness there to. Past due amounts are subject to late payment interest at 2% compounded monthly.

Thank you for your business and we look forward to seeing you again.