Hammer Lane Diesel LLC
1418 Industrial Dr Ste D
Bismarck, ND 58501-3341 United States
(701) 425-6117

Invoice #000442

Issue date
Aug 4, 2026

Replace Engine / Long Block

2004 Peterbilt 379
Vin:4D811490
Cat C-15 S/N: 6NZ13655
Mileage:228832 Odometer
Truck #8

**********Customer is a Dealer, Sales Tax Exempt ND Permit # 210565
00**********

Truck was towed in, spun main bearing diagnosed at another shop. Customer ordered a long block from another shop as well.

Washed engine, pushed into the bay. Drained coolant. Removed bumper and hood. Evacuated a/c, removed lines and compressor. Pulled radiator, found it leaking and had been damaged from fan getting into the core. Customer ok'd a new radiator. Ordered new rad. Unhooked exhaust, fuel lines, and electrical wiring. Removed starter and p/s pump. Unbolted mounts, and clutch. Pulled engine, set on stand. Pulled clutch and inspected. Has some wear, but has more than half the friction material left on the discs. Pulled off the input shaft and inspected the splines. They were binding from clutch dust. Cleaned splines with solvent, the splines are in good reusable shape. Installed a new single piece clutch brake. Cleaned up the clutch with compressed air, and hung back on the trans. Disassembled radiator assembly. Pressure tested charge air cooler and it has no leaks. Washed out condenser and charge air cooler. Assembled radiator assembly with a new radiator.

Long Block was delivered to our shop. The wrong front plate is installed on this engine. There is no machined hole for the cam sensor. Let customer know and he is having the correct front plate sent to us. When the correct front plate arrived, we disassembled front of engine to remove the wrong plate. Cleaned up block and front housing. Swapped over compressor studs to the new plate and installed with new seal washers. All the other studs are already installed. Installed correct front plate with a new gasket and torqued to spec. Installed gears that were removed and torqued to spec. Installed front housing with a new gasket and torqued to spec. The oil pan gasket slid when installing front cover so the pan will have to be dropped down to line up gasket. Installed flywheel and torqued to spec. Pinned engine, installed cam gearing and set backlash to spec. Installed peanut cover. Installed a new front crank seal. Installed front damper and torqued to spec. Installed injectors from old engine with new seals and hold down bolts. The rocker arm assemblies that came with the long block cannot be used. They will not work with the jake housings. Cleaned up, inspected and installed rocker arm assemblies from old engine. Installed jake housings studs and jake housing torquing to spec. Had to repair three holes in the valve cover base because they were stripped. Installed new rope seal and injector harness seal in base. Installed valve cover base and torqued to spec. Connected injector harness to injectors and torqued to spec. Had to install one new injector connector because one was broken. Adjusted all valves, jakes and injectors to spec. Installed jake solenoids with new seals and torqued. Connected jake wiring. Installed acc drive housing and power steering pump with new seals. Swapped fittings and plugs needed from old engine to the new one. Installed fuel filter base. Eliminated long tee from filter base output to clean up the plumbing. Installed water and fuel manifold on head. Installed new fuel lines from manifold to filter base and filter base to back of head. Painted and installed ecm. Swapped fittings over to the new air compressor and painted compressor. The compressor mounting adaptor on old compressor has a chunk missing by the oring groove. Ordered a new adaptor and installed on new compressor. Installed new compressor on engine. Installed both new compressor coolant hoses. Reused and installed compressor air supply line. Installed intake horn with a new gasket. Installed new breather tube and clips. Had to install a new cam sensor. The old one has bad wires too close to sensor body to repair. Installed oil psi/atmospheric psi manifold. Installed engine sensors with new seals. Installed engine harness and tied up to prevent rubbing. Installed fuel and coolant crossover pipes. Installed new water pump. Had to install an Accert water pump because of the water pump bonnets old engine had. Installed water pump bonnet with new seal. Assembled oil filter base and installed. Installed oil cooler bonnet, oil cooler and front bonnet with new seals. Installed new 1" coolant fitting in pump bonnet. The old one had to be cut to remove. Installed plates and new gaskets where needed. Installed new manifold studs and torqued to spec. Installed new manifold the customer supplied us. The old one was rotten at the turbo mounting flange and it was not going to seal again.

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The old one had two turbo gaskets stacked on top of each other. Once manifold was installed we realized the center section is positioned two low. The turbo oil lines, air piping and exhuast would have to be modified to make work. Talked to customer and got the ok to install a new Cat center section of the exhaust manifold which will cure all these issues. Removed manifold and reinstalled with the new Cat center section. Torqued manifold to spec. Installed new thermostat seals and thermostats in housing. Assembled housing and installed on engine. Installed turbo with a new gasket, hardware and torqued to spec. The turbo drain line from old engine was modified and did not fit well. Installed a used turbo drain line with new gaskets and seals. Had to split turbo at hot housing to rotate turbo to the proper orientation. torqued turbo hot housing clamp to spec. Had to install an adaptor fitting for turbo oil supply line. The old engine was pipe thread and the new one is oring boss. Installed turbo oil supply line. Welded crack in alternator mounting bracket. Installed A/C compressor and alternator with brackets. Installed fan hub and belts. Tightened belts. Installed a new alternator adjustment rod because the old one was broken. Installed belts and tightened. Swapped motor mount brackets over to the new engine. Installed a new rear cam cover. The old was cracked. Installed transfer pump with a new seal. Installed fuel hard line with new clips. Lifted up engine. The wrong style pan is installed on this engine. The oil pan sump needs to be in the rear. Removed oil pan. Removed oil suction tube. Installed oil suction tube from old engine. Installed pan from old engine with a new gasket and isolators and torqued to spec. The isolators could not be reused because they were damaged from previous install. Installed new rear and front engine mounts. Set engine in truck. Bolted trans up to bell housing. Bolted up front and rear motor mounts. Bolted up clutch, connected clutch linkage and adjusted clutch. Bolted up fan and torqued to spec. Installed new radiator mounts and set cooling package in truck. Bolted up shroud. Installed upper radiator mounts with new bushings. Installed upper and lower radiator pipes. Connected heater hoses to engine. Made all electrical and hose connections to engine. Routed and tied up lines and wiring to prevent rubbing. Installed a new engine oil temp sender. The electrical terminals were broke off the old one. Crimped new electrical terminals on oil temp wires. Installed starter and connected wiring. Installed two new power steering hoses that were rock hard. Replaced power steering filter, gasket and fill cover which was broken. Filled with fluid. Filled engine with 15/40 Ridgeline oil. Connected A/C lines and pulled vacuum on system. After vacuum and leak test passed, charged with 5.5lbs of freon. Filled cooling system with straight water to flush system. All four charge air boots were rubbed badly and would blow if reused. Installed a new charge air hose kit. Installed air intake piping. Connected exhaust and had to install a new section of flex. Installed horseshoe and hood brackets. When we tried to fire engine up it would not crank fast enough even after having the charger on them. Installed four new batteries. Fired up engine and let warm up. Drained water from cooling system. Flushed all the water out of heater hose lines. Connected heater hoses, installed plug and tightened drain cock. Filled cooling system with new ELC antifreeze. Installed hood and bumper. Test drove truck.

Customer
Dalton Fleck
(701) 426-4450
Mandan, ND 58554

Invoice Details
PDF created August 6, 2026
$21,011.65
Service date August 4, 2026

Payment
Due August 4, 2026
$21,011.65

Items	Quantity	Price	Amount
239310 Radiator New	1	$1,805.00	$1,805.00
RM75-63861ATR Rad Support Mount	2	$21.17	$42.34
PL1126ATR Rad Support Bushing	4	$3.37	$13.48
PL1015HTATR Radiator Mounts	4	$19.64	$78.56

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MM75-62001HTATR Rear Mount Kit	1	$154.57	$154.57
ELC Coolant	13	$14.00	$182.00
Rotella 15W-40	11	$19.97	$219.67
R-134A	2	$15.00	$30.00
127760DAN Clutch Brake	1	$37.86	$37.86
PDI Big Boss Oil Cooler	1	$895.00	$895.00
1653928 Bolt	5	$1.00	$5.00
3P1155 Seal	1	$10.67	$10.67
2033940 Seal	2	$3.09	$6.18
1016596 Hose	1	$81.11	$81.11
ORB-Pipe Fittings	2	$6.00	$12.00
Exhaust Spacers	11	$14.00	$154.00
Compressor Stainless Hose	1	$66.00	$66.00
Compressor Hose Barb	1	$12.00	$12.00
7E6508 Connector	1	$10.12	$10.12
8S9191 Injector Bolt	6	$2.00	$12.00
Rockmount 5/16" Thread Insert	3	$20.00	$60.00
5P5292 Rope Seal 2.9Meters	1	$52.92	$52.92
4P7581 Clip	1	$8.00	$8.00
Rubber Clamps	2	$2.00	$4.00
2U1492 Jake Solenoid Seal	3	$1.48	$4.44
2U1493 Jake Solenoid Seal	3	$1.48	$4.44
1436642 Jake Solenoid Seal	3	$1.48	$4.44
4P0902 Fuel Hose	1	$89.08	$89.08
1723443 Fuel Hose	1	$50.83	$50.83

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1070583 Bolt	3	$0.28	$0.84
1261756 Bolt	10	$0.44	$4.40
1178801 Seal	1	$25.82	$25.82
5E8771 Seal	1	$23.99	$23.99
1559524 Seal Integral	1	$150.01	$150.01
54-8D Elbow	1	$7.62	$7.62
6V3683 Seal	1	$8.63	$8.63
8J4351 Seal	1	$13.47	$13.47
1653931 Bolt	1	$0.94	$0.94
4504141 Bolt	2	$1.05	$2.10
1V1984 Clip	1	$8.27	$8.27
5P9297 Clip	1	$6.21	$6.21
1029089 Cover	1	$22.44	$22.44
2016617 Cam Sensor	1	$211.32	$211.32
20R9847 Water Pump	1	$1,040.53	$1,040.53
5P1838 Adaptor	1	$11.06	$11.06
1469445 Manifold Center Section	1	$688.19	$688.19
6I3907 Adaptor, Compressor	1	$216.89	$216.89
1280331 Hose	1	$5.64	$5.64
1100004 Seal	2	$9.94	$19.88
5P8245 Washer	2	$0.79	$1.58
0S1594 Cap Screw	8	$0.51	$4.08
5M2894 Washer	8	$0.44	$3.52
2477133 Regulator	2	$67.54	$135.08
4N4941 Rod	1	$56.68	$56.68

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6B6684 Nut	2	$0.61	$1.22
1061792 Stud	11	$14.79	$162.69
2N2766 Lock nut	16	$7.11	$113.76
1262702 Seal	1	$11.75	$11.75
1986068 Seal	1	$11.27	$11.27
1367226 Seal	1	$5.45	$5.45
1S4295 Gasket	1	$9.58	$9.58
2078128 Hose	1	$48.01	$48.01
0S1576 Bolt	12	$2.59	$31.08
0S1595 Bolt	1	$1.02	$1.02
1616622 Clip	1	$38.79	$38.79
1724702 Clamp	2	$1.64	$3.28
5P2369 Clip	1	$15.05	$15.05
5002984BXR Compressor	1	$544.48	$544.48
1104334 Eye	1	$108.13	$108.13
3766577 Front Structure Gasket Kit	1	$504.96	$504.96
Pilot Bearing	1	$23.54	$23.54
Electrical Termainal	2	$2.00	$4.00
1R1808 Filter	1	$45.62	$45.62
1R0749 Filter	1	$28.61	$28.61
2568753 Filter	1	$33.38	$33.38
331218 Pan Gasket	1	$197.56	$197.56
ATF Quart 2.5	1	$33.13	$33.13
1185068 Seal	1	$3.23	$3.23
Hose Ties	2	$3.50	$7.00

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CAC-KITW Charge air boot kit	1	$207.15	$207.15
Hose Wrap	5	$1.50	$7.50
Heater Hose Clamps	8	$3.00	$24.00
1" Power Steering Hose	1	$21.60	$21.60
1/2" Power Steering Hose	1	$7.20	$7.20
MM75-62005HTATR Engine Mount Kit Front	1	$130.80	$130.80
2401614 Sleeve As	24	$9.41	$225.84
K379-12 Oil Temp Sender	1	$151.36	$151.36
Q347367FLG Cap-Fill Vented	1	$36.16	$36.16
Q79699FLG Gasket	1	$8.18	$8.18
87904M Filter,Power Steering	1	$28.68	$28.68
MWB31900VL Battery	4	$91.99	$367.96
L92-6000-0718W Hood Cable	1	$18.50	$18.50
EC50PLS Exhaust Clamps	2	$10.50	$21.00
5" Exhaust Flex 2.5 Feet	1	$53.43	$53.43
Exhaust U-clamp	1	$9.84	$9.84
HWC01045 Washer	1	$2.84	$2.84
A/C Seals	4	$3.50	$14.00
Radiator Clamps	8	$12.00	$96.00
3/8" Heater Hose 32"	1	$6.72	$6.72
1" Heater Hose 40"	1	$14.40	$14.40
3" Radiator Hose 18"	1	$36.00	$36.00
Stainless Hardware	1	$16.00	$16.00
Misc Hardware	1	$20.00	$20.00
Shop supplies	1	$412.50	$412.50

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Labor *R&I Engine*	40	$165.00	$6,600.00
Labor *Assemble Long Block*	10	$165.00	$1,650.00
Labor *Front Cover*	6	$165.00	$990.00
Labor *Reassemble Core*	3	$165.00	$495.00
Labor 1.5hrs *Oil Pan/Tubes*	1	$247.50	$247.50
Labor *Batteries*	1	$165.00	$165.00
Labor *Clutch/Mounts*	1	$165.00	$165.00

Subtotal $21,011.65

Total Paid $21,011.65

Payments
Aug 5, 2026 (Check) $21,011.65
Ck# 013051

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