



**TRIPLE THREAT
DIESEL**

Triple Threat Diesel Inc.
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Clairmont AB T8X 5A1
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GST/HST Registration No.: 830529301RT0001

INVOICE

BILL TO

PureChem Services
9701 163 Ave
Grande Prairie AB T8X0B6

INVOICE # 18950

DATE 05/21/2024

DUE DATE 05/21/2024

TERMS COD

QTY	DESCRIPTION	RATE	AMOUNT
0	Complaint: Diagnose for oil consumption; Cause: Carbon packing; Correction: Ran engine to temp and check for blow by. Blow by was very minimal. 6.7 inH2O Spec is New or rebuilt engines (maximum) less than 100,000 miles 305 mm H2O [12.0 in H2O] Used Engine (maximum) greater than 100,000 miles 457 mm H2O [18.0 in H2O]. Removed fuel injectors and bore scoped cylinder liners. There was vertical lines wore in all the liners. Remove head for further inspection. Drained coolant. Evacuated AC. Removed air intake and CAC piping from engine. Removed coolant piping connecting rad from engine. Unbolted rad and removed. Removed fan assembly from engine. Disconnected and or removed all external engine components from D/S and P/S of engine. Removed rockers from engine. Unbolted cylinder head and removed. Vertical lines worn into liners was confirmed, all 6 liners had lines. Drained oil and removed oil pan, block stiffener plate, piston cooling nozzles. Unbolted and removed pistons from engine. When inspecting pistons it was found that a large amount of carbon had built up above the upper piston ring causing the vertical lines to become worn on the cylinder liner. Cylinder liners were removed from the engine and new liners installed. Pistons assemblies were taken apart and new pistons were assembled. New main and rod bearings were installed. Mains were torqued to spec. 150ftlbs loosen off 110ftlbs then rotated 180 degrees. The pistons were installed in the engine. Rod caps were torqued to spec. 52ftlbs then rotated 60 degrees. The cylinder head was cleaned and inspected. No issues were found with the cylinder head. The cylinder head was reinstalled with a new head gasket. Cylinder head was torqued down to spec. 150ftlbs, 300ftlbs then rotated 90 degrees. The cam was reinstalled and and the engine timed and gear lash set. The rockers were installed and torqued down. Valve lash was adjusted. Fuel injectors were fitted with new sealing hardware and installed. All external engine components on the D/S and P/S were installed and bolted back up. The rad was dropped in and bolted down. Air piping and coolant piping was reinstalled. The piston cooling nozzles, block stiffener plate and oil pan were installed. The engine was filled with new engine oil. The old coolant was installed in the engine. The engine was ran up to temp and test driven. Ran good	0.00	0.00
6	Parts: MAHLE CYLINDER SLEEVE	0.00	0.00
44	Parts: 15W40 ROTELLA CK4 BULK OIL	0.00	0.00
1	Parts: O-RING, ISX Pickup Tube	0.00	0.00
1	Parts: ISX OIL FILTER	0.00	0.00
1	Parts: ISX OIL PAN GASKET	0.00	0.00
6	Parts: INJECTOR FIRE RING	0.00	0.00
6	Parts: O-RING, 2250/2350 Injector	0.00	0.00
6	Parts: ISX FRACTURE SPLIT CON ROD BEARING	0.00	0.00

QTY	DESCRIPTION	RATE	AMOUNT
4	Parts: 2250/2350 TURBO NUT	0.00	0.00
1	Parts: Main Bearing Kit	0.00	0.00
1	Parts: ISX HEAD GASKET	0.00	0.00
1	Parts: 2250/2350 FRONT COVER SEAL	0.00	0.00
1	Parts: SEAL - RECTANGULAR RING (OLD # 3686368)	0.00	0.00
1	Parts: 2250/2350 FRONT CAM PLATE SEAL O-RING	0.00	0.00
1	Parts: TURBO GASKET	0.00	0.00
1	Parts: 2250/2350 TURBO DRAIN GASKET	0.00	0.00
6	Parts: PISTON KIT	0.00	0.00
1	Parts: 2250/2350 FRT CAM ORING (OLD #3679932)	0.00	0.00
1	Parts: 2250/2350 FRONT CAM O-RING	0.00	0.00
1	Parts: CLAMP, 3" CONSTANT TORQUE	0.00	0.00

SO: SO-8823; Unit: D001771; Unit Type: Tractor; VIN: 1XPTP4EX7GD288896;
Year/Make/Model: 2016 Peterbilt 367; Chassis: 639,972 Kilometers; Engine: 11,948
Hours;

I hereby authorize the above repair work to be done along with the necessary material, and hereby grant you and/or your employees permission to operate the truck herein described on streets, highways, or elsewhere for the purpose of testing and/or inspecting.

I agree to the payment terms as discussed with management of Triple Threat Diesel Inc. I and/or my company is responsible for the entirety of all payments associated with the work done for us, by Triple Threat Diesel Inc.

I agree to the terms of Triple Threat Diesel Inc. warranty policy.

Authorized by: _____

SUBTOTAL	0.00
GST @ 5%	0.00
TOTAL	0.00
BALANCE DUE	CAD 0.00