



Cummins South Pacific Pty. Ltd.

WORKSHOP TAX INVOICE

ABN NO. 42006332949

Toowoomba
PO Box 41 Wyalla Plaza
Toowoomba QLD 4350
Tel: 07 4633 7627
Fax: 07 4633 7627

COPY

INVOICE NUMBER

9551309

INVOICE DATE

25/10/22

PAGE

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Invoice To

Account Number 1300332
WOODS TRANSPORT PTY LTD
WOODS TRANSPORT PTY LTD
PO BOX 135
GOONDIWINDI
QLD 4390

Customer

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PO BOX 135
GOONDIWINDI
QLD 4390

| | | | | | |
|------------------|-------------------|-------------|----------|--------------|----------|
| Engine Model: | SIGNATURE/ISX/QSX | Eng No: | 79964260 | Equip Make: | KENWORTH |
| FleetNo: | | Reg No: | TWT25 | Cust Ord NO: | TWT25 |
| Date in Service: | 15/05/17 | KLMS: | 1172601 | HRS: | 22447 |
| Repair Date: | 10/10/22 | Chassis NO: | 458557 | Currency: | AUD |
| C.O.No. | 6620553 | Work ordNo. | 2779307 | Facility | 137 |

Complaint:

Engine rebuild - Classic Plus
Turbo, air comp, water pump core
Clutch
Idler gear R&R

Cause:

Maintenance

Correction:

Guidanz SO Number: 440650

Hrs/Klms: 22447 hrs / 1,172,601 kms

Fuel Burn: 725,526 lfb

Download ECM
 Drain coolant and oil
 Remove tailshaft
 Remove all components necessary to access gearbox
 Remove gearbox
 It is necessary to remove exhaust when removing gearbox.
 Noted doser injector connector broken when exhaust was removed. Renew connector
 Remove bonnet and radiator
 Customer collected radiator for cleaning/repair
 Start to disassemble engine, removing external components (turbo, exhaust manifold, thermostat housing, intake manifold, fuel pump and ECM)
 Remove rocker cover, front tin cover, timing gears, rocker assembly and camshaft
 Remove cylinder head, sump, oil pick up and stiffener plate, piston cooling nozzles, pistons and liners
 Clean and inspect block
 Remove main bearings
 Clean all removed components, carry out teardown inspection:
 Coolant out of spec
 Air filters dusty
 Fan belt & A/C belt cracked
 4 x short head bolts pitted
 1 x tailshaft yoke bolt seized
 Exhaust dump pipe bushes cracked
 Front crankshaft seal leaking



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|-------------|-----------|------------|-----|-----------|

Camshaft adjustable idler shaft measured out of spec
 Camshaft idler gear measured out of spec

Advise customer of findings and given approval to repair/
 replace items as required

Fit new pistons to rods and fit rings onto pistons
 Roll main bearings
 Install new liners, pistons and piston cooling nozzles
 Fit new clutch assembly and refit gearbox with one new
 tailshaft yoke bolt
 Fit stiffener plate
 Fit new (recon) oil pump and oil pickup
 Refit flywheel housing, rear seal
 Refit sump
 Install new cyl head (recon) with 4 new short head bolts,
 gasket and o-rings where required
 Fit new shafts in upper and lower idler gears
 Fit new shaft to new cam adjustable idler gear and set base
 timing
 Fit front cover and tension to spec
 Fit rocker shafts to head and complete engine brake
 running clearance
 Complete valve set
 Fit tappet cover and tension to spec
 Fit flywheel and tension
 Fit new turbo
 Install new air compressor
 Refit power steering pump with new gasket
 Fit new water pump cartridge
 Refit fuel pump
 Fit new oil filter and prime oil system
 Refit and plumb up radiator
 Refit bonnet
 Fill cooling system with new coolant
 Replace fuel filters
 Fill engine with new engine oil
 Start and run engine
 Clean engine bay
 Carry out run in procedure
 Return vehicle to service

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Customer supplied technician to renew clutch assembly,
 Also supplied starter motor, alternator and transmission oil

Parts obtained from B&H on customer's account:
 Fan belt, a/c belt, exhaust dump pipe bushes,

Basic Plus Rebuild: \$27,400.00
 Additional labour 17.50 hrs @ \$168 = \$2940.00
 Recon turbo: \$4048.84
 Turbo studs & nuts: \$326.64
 Recon air compressor: \$2964.56
 D2 governor valve: \$53.58
 Coolant line o-rings: \$54.18
 AFM gasket: \$60.92
 Acc drive support gasket: \$67.41
 Water pump cartridge & o-ring: \$1030.21
 Coolant: \$400.56
 Front crank seal: \$227.50
 Air filters: \$114.86
 Cyl head bolts: \$308.88
 Camshaft idler gear bolts: \$66.54
 Camshaft idler gear: \$912.22
 Idler shaft: \$342.92
 Doser injector connector: \$48.71
 Fuel filter: \$35.30
 Consumables: \$55.00

TOTAL PRICE: \$41,458.83 + GST

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|-------------|-----------|------------|-----|-----------|
|-------------|-----------|------------|-----|-----------|

Material

| | | | | |
|-----------|------------------------|--|---|--|
| 5693737 | KIT, OVERHAUL | | 1 | |
| 5680039RX | RECON LUBE PUMP ISX | | 1 | |
| 275707 | AIR GOVERNOR VALVE D-2 | | 1 | |

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| | | |
|---------------|----------------------------|----|
| 3627695 | SEAL O RING | 2 |
| 5607734RX | RECON TURBOCHARGER KIT (E | 1 |
| 5658203RX | RECON CYL HEAD ISXE5 | 1 |
| 2866337 | GASKET AFM DEVICE | 2 |
| 4298242 | STUD | 4 |
| 5440813 | GASKET, ACC DRIVE SUPPORT | 1 |
| 4298975 | NUT, LOCK | 4 |
| 5719759 | CORE, WATER PUMP | 1 |
| 1324.01 | PREMIUM BLUE 8600 OIL (W/ | 50 |
| 3163075 | PAINT "300 APEX RED" 12. | 1 |
| PGXLVITAL-20L | PGXL VITAL ADVANCED COOLA | 3 |
| 3684384 | SEAL, O RING | 1 |
| 3690864RX | RECON AIR COMPRESSOR ISX | 1 |
| 4988280 | GASKET HYDRAULIC PUMP | 1 |
| CSC82052 | BOLT UNI JOINT SUIT CP25R | 1 |
| 3685173 | SEAL OIL | 1 |
| 3678506 | SCREW HEXAGON FLANGE HEAD | 4 |
| 3896408 | SCREW HEXAGON FLANGE HEAD | 3 |
| AF351KM | AIR FILTER | 2 |
| 3689641 | GEAR, IDLER | 1 |
| 715-8016-006 | ELBOW, CONNECTOR, 1/4"-3MM | 1 |
| FS19764 | ELEMENT | 1 |
| DCT110H1RW | TIE-CABLE BRAKE HOSE 19.2 | 8 |
| 3686358 | SHAFT IDLER | 1 |

| | |
|----------------------|-----------------|
| SUB-TOTAL | 41458.83 |
| G.S.T | 4145.88 |
| INVOICE TOTAL | 45604.71 |