



Cummins South Pacific Pty. Ltd.

ABN NO. 42006332949

WORKSHOP TAX INVOICE

BRISBANE
P O BOX 227
ARCHERFIELD QLD 4108
Ph: 07 3710 4700
Fax: 07 3375 3520

INVOICE NUMBER

9820896

INVOICE DATE

28/06/23

PAGE

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Invoice To

Account Number 130SERV
CASH SALES SERVICE - BRISBANE
CASH SALES SERVICE

Customer

NKB FREIGHTLINES
1 GRAPPLE CLOSE
NEW BEITH
QLD 4124

Engine Model:	SIGNATURE/ISX/QSX	Eng No:	80204542	Equip Make:	KENWORTH
FleetNo:		Reg No:	NKB16	Cust Ord NO:	
Date in Service:	31/12/19	KLMS:	905854	HRS:	11731
Repair Date:	20/06/23	Chassis NO:	466736	Currency:	AUD
C.O.No.	6666407	Work ordNo.	2825970	Facility	130

Complaint:

Hydraulic locked, pressurising
cooling system

Cause:

- Blown head gasket cylinder 5
- Fretted liner shims
- Low liner heights
- Cam idler shaft measured oversize
- Fan belt cracked
- Turbo wastegate actuator leaking
- Replace maintenance items as requested

Correction:

Guidanz SO Number: 612278

Hrs: 11,731

Klms: 905,854

Fuel Burn: 437,066

- Carry out JSA & vehicle pre-inspection
- Carry out ECM download & upload to guidanz
- Diagnose using coolant
- Remove engine oil filler cap, found contamination under filler cap.
- Attempted to bar over engine and found engine to lock up.
- Drain engine oil & removed oil pan
- Pressure test cooling system to find coolant leaking past cylinder #5
- Strip engine to remove cylinder head
- Found cylinder head gasket blown on cylinder #5
- Removed pistons & liners to find fretted shims and broken shim on cylinder #5
- Cleaned and inspected all parts for reuse
- Measure bend and twist, check conrods for reuse. #1 conrod failed bend and twist checks
- Carry out Liner repair as below:
 - Liners
 - Circlips
 - Piton rings
 - 1 x recon conrod

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Description	Operation	Unit price	Qty	Extension
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- Main & connecting rod bearings
- Upper gasket set
- Re-assemble engine utilizing upper gasket set
- Found cam idler shaft to measure out of spec
- Remove & replaced idler shaft & set base timing
- Assemble sides and top end, adjust overhead
- Replace leaking turbo actuator, adjust to spec and fit turbo
- Replace upper, lower radiator, heater and draw down hose and clamps.
- Replace radiator vent line and fittings
- Replace w/pump cartridge.
- Replace fan & a/c tensioners, a/c idler & fan belt idler pulley
- Filled with customer supplied fluids & fitted new filters where required
- Replace coolant filter
- Replace air filter.
- Replace fan belt
- Start and run engine, operate vehicle on chassis dyno to run in engine & confirm repairs
- Drain and replace engine oil and filter due to initial contamination
- Pressure clean engine bay
- Check vehicle over & return back into service

Please note:

Cummins goodwill has supported the cost of a Liner repair kit towards this repair

Customer supplied own engine oil, coolant and coolant filter

Labour: \$8,640 + GST
Oil filters: \$152.36 + GST
Recon conrod: \$1,277.61 + GST
Uni joint bolts: \$37.00 + GST
Clamps: \$24.16 + GST
Oring: \$52.07 + GST

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Water pump core: \$1,240.89 + GST
Silicone hoses: \$482.19 + GST
Aftertreatment gaskets: \$171.70 + GST
Idler shaft: \$471.56 + GST
Belts: \$124.49 + GST
Main bearing kit: \$1,052.50 + GST
Big end bearing kit: \$1,515.36 + GST
Air filter: \$143.88 + GST
Belt tensioners: \$2,675.46 + GST
Idler pulleys: \$1,260.27 + GST
Dust shield: \$37.01 + GST
Turbo actuator: \$1,086.73 + GST
Consumables: \$150.00 + GST
Environmental Levy: \$25.00 + GST

Goodwill labour support: -\$3,072.00
Branch goodwill parts discount: -\$1,180.53

TOTAL: \$16,367.71 + GST

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Description	Operation	Unit price	Qty	Extension
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SUB-TOTAL 16367.71

G.S.T 1636.78

INVOICE TOTAL 18004.49