



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

COPY

INVOICE NUMBER

1254561

INVOICE DATE

29/05/24

PAGE

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Invoice To

Account Number 1301330
B W METCALF - CLOSED
B W METCALF PTY LTD
PO BOX 94
CLIFTON
QLD 4361

Customer

DARLING DOWNS HAULAGE
251 O'MARA RD

CHARLTON

QLD 4350

Engine Model:	SIGNATURE/ISX/QSX	Eng No:	80210735	Equip Make:	KENWORTH
FleetNo:		Reg No:	XB77OB	Cust Ord NO:	CBM007
Date in Service:	30/12/19	KLMS:	727925	HRS:	13000
Repair Date:	28/05/24	Chassis NO:	466762	Currency:	AUD
C.O.No.	6721989	Work ordNo.	2888829	Facility	130

Complaint:

Retail items while completing liner repair

Cause:

Retail items used during warranty repairs

Correction:

Guidanz SO Number: 891105

Hrs/Klms: 737,925 klms / 13,000 hrs

Fuel Burn: 524,600 ltrs

- Take ECM downloads and upload to Guidanz
- Wash engine bay
- Pressure test cooling system for external leaks none found
- Perform combustion gas sniffer test, engine returned positive result for combustion gases in cooling system
- Drain oil and dispose
- Drain coolant and retain
- Remove components to remove cylinder head
- Remove cylinder head to find head gasket blown at cylinder #1
- Clean block deck and measure liner protrusions to find all liners below specifications
- Remove piston/connecting rod assemblies and strip
- Remove cylinder liners to find broken and fretted shims
- Clean and inspect all parts
 - Turbo wastegate actuator diaphragm leaking
 - head bolts pitted
 - cam idler shaft measured oversize
 - radiator cap, not holding pressure
 - exhaust dump pipe rubbers, collapsed
 - radiator vent line, perished & hard
 - coolant, measured below minimum
- Carry out In-chassis liner repair as below:
 - Cylinder Liners
 - Piston Rings

All goods and services provided in line with Cummins Terms and Conditions of Sale

Payment Terms 30 Days from End of Month

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Description	Operation	Unit price	Qty	Extension
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- Piston Circlips
- Top end gasket set
- Reassemble engine with new gaskets and seals
- Replace cam idler shaft
- Set base timing and carry out overhead set
- Fit and plumb recon turbo
- Replace exhaust dump pipe rubbers
- Replace radiator vent line
- Install radiator & CAC assembly
- Replace leaking intercooler hose
- Change coolant filter and refill with fresh coolant
- Pressure prime lube oil system
- Bleed cooling system
- Start and run engine, operate vehicle on road to run in engine & confirm repairs
- Pressure clean engine
- Check over vehicle and return to service

Please note:

Cummins Goodwill have supplied a liner repair kit towards this repair and assisted with cost of labour to complete the repair.

Turbo: \$4,893.64 + GST
Oil: \$364.50 + GST
Oil filter: \$69.87 + GST
Coolant: \$490.24 + GST
Coolant filter: \$61.01 + GST
Head bolts: \$617.82 + GST
Idler shaft: \$457.16 + GST
Sealant: \$63.32 + GST
Aftertreatment gasket: \$68.90 + GST
Fitting & hose: \$26.08 + GST
Boost hose: \$135.14 + GST
Bushes: \$132.42 + GST
Consumables: \$150
Environmental levy: \$25.00

TOTAL: \$7,555.10 + GST

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Description	Operation	Unit price	Qty	Extension
Material				
1324.01	PREMIUM BLUE 8600 OIL (W/		50	
PGXLVITAL-20L	PGXL VITAL ADVANCED COOLA		3	
5607734RX	RECON TURBOCHARGER KIT		1	
WF2127	ESI WATER FILTER BLANK		1	
3678506	SCREW HEXAGON FLANGE HEAD		6	
3391271	LUBRIPLATE 105 GREASE 100		1	
3686358	SHAFT IDLER		1	
LF14000NN	OIL FILTER COMBO SPINON		1	
3164067	SEALANT SILICONE ADHESIVE		1	
2866337	GASKET AFM DEVICE		1	
65-90860EA	CABLE TIE 380X8MM PER EAC		30	
65-90820EA	CABLE TIE 292X3.5MM PER		30	
20620-4-4	FITTING		2	
201-4/1	HOSE # 4 PER METRE		1	
K066-338	BUSHING, ANTI VIBRATION		2	
DCT110H1RW	TIE-CABLE BRAKE HOSE 19.2		10	
HE8761XL	HOSE		1	

SUB-TOTAL	7555.10
G.S.T	755.51
INVOICE TOTAL	8310.61