



Cummins South Pacific Pty. Ltd.

WORKSHOP TAX INVOICE

ABN NO. 42006332949
Toowoomba
PO Box 41 Wyalla Plaza
Toowoomba QLD 4350
Tel: 07 46337627
Fax: 07 46337627

INVOICE NUMBER

9232251

INVOICE DATE

24/01/22

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COPY

Invoice To

Account Number

Engine Model:	SIGNATURE/ISX/QSX	Eng No:	79873668	Equip Make:	KENWORTH
FleetNo:		Reg No:	304TWP	Cust Ord NO:	
Date in Service:	12/04/16	KLMS:	1261991	HRS:	22026
Repair Date:	11/01/22	Chassis NO:	452561	Currency:	AUD
C.O.No.	6569117	Work ordNo.	2727363	Facility	137

Complaint:

Using coolant
Fit UK178 Inline filter kit

Cause:

Cyl head cracked internally
Vibration damper measured out of spec

Correction:

Guidanz SO Number: 281294

Hrs: 22026 hrs
ECM Klms: 969435
Fuel Burn: 626619 lfb

Download ECM
Troubleshoot for complaint of using coolant
Carry out combustion gas test, found to have pressure in cooling system, with no combustion gases
Drain cooling system
Bypass coolant lines to compressor head. Remove air compressor charge line. Refill with coolant and carry out combustion gas test again, to find cooling system still has pressure building with no combustion gases
Drain engine oil. Find to be contaminated by coolant
Remove sump, oil pick up and stiffener plate
Pressurise cooling system and check for leaks in bottom end of engine - no leaks found (cooling system was at 15 psi for over 2 hours)
Remove cylinder head and pressure test to find 10 psi drop over 36 mins, head out of spec
Strip head, install new o-rings to injectors and fit to new head
Refit cylinder head and refit all removed parts with new seals and gaskets as required
Replace vibration damper with heavy duty vibration damper which provides greater durability in heavy duty applications
Remove intank AdBlue filter. Install AdBlue inline filter kit and bracket. Was necessary to make up two new OEM supply lines as original lines not long enough to reach inline filter location
Carry out AdBlue flush to record 100 mls in 6 mins

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

Payment Terms Cash/Cleared Funds

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Description	Operation	Unit price	Qty	Extension
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Fit new air/oil separator
Replace bearings in idler pulleys and refit belts
Fit radiator
Refill cooling system
Refit bonnet
Test drive after repair to find AdBlue fault code
Carry out AdBlue flush x 3 times to record 100 mls in 6 mins
Return vehicle to service

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Cummins contribution: 50% vibration damper;
100% labour to R&R cyl head, upper engine gasket kit, engine
oil and filter

=====
Customer contribution:
50% vibration damper \$1352.05
Cyl head: \$6599.76
Capped price Inline filter kit: \$690.
Additional bracket: \$68.60

Total customer contribution: \$8710.41 + GST

Description	Operation	Unit price	Qty	Extension
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Material

5658203RX	RECON CYL HEAD ISXE5		1	
UK178	UREA FILTER		1	
CSP06377	UK177/UK178 FILTER HOUSIN		1	
6203LLU	BALL BEARING / IDLER		2	
6303LLU	BEARING 17X47X14MM		3	
3690868	DAMPER, VIBRTN VSCS ~485-		1	
AS2474	AIR/OIL SEPARATOR		1	

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<i>Description</i>	<i>Operation</i>	<i>Unit price</i>	<i>Qty</i>	<i>Extension</i>
<i>SUB-TOTAL</i>				8710.41
<i>G.S.T</i>				871.04
<i>INVOICE TOTAL</i>				9581.45