



Cummins South Pacific Pty. Ltd.

ABN NO. 42006332949

Cummins Tamworth
10 Logistic Avenue
Westdale
NSW 2340
Tel : 02 6765 5455

WORKSHOP TAX INVOICE

INVOICE NUMBER

9433091

INVOICE DATE

16/07/22

PAGE

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COPY

Invoice To

Account Number 217SERV
CASH SALES SERVICE - TAMWORTH
TAMWORTH
SERVICE CASH SALES

Engine Model:	SIGNATURE/ISX/QSX	Eng No:	79971704	Equip Make:	KENWORTH
FleetNo:		Reg No:	CL32AQ	Cust Ord NO:	
Date in Service:	09/08/17	KLMS:	639477	HRS:	
Repair Date:	15/07/22	Chassis NO:	459182	Currency:	AUD
C.O.No.	6602608	Work ordNo.	2762636	Facility	217

Complaint:

Using coolant - Additional

Cause:

Maintenance items

Correction:

CSS - 00381970

Odometer: 639,477km

Hrs: 11,838

Fuel Burn: 497,831L

Correction:

Isolated machine. Connected to INSITE & captured ECM download.

Investigated cooling system pressurising. Removed radiator cap & started engine. Found coolant purging out of header tank. Installed cooling system pressure tester to header tank & ran engine. Found pressure rose to 17 psi quickly. Bypassed air compressor coolant lines & found cooling system still pressurising. Carried out CO2 test on cooling system & found it to indicate combustion gases entering cooling system. Steam clean engine & chassis.

Removed intake manifold, rocker cover, engine brake harness, rocker gear, front cover, camshaft gear and idler gear, camshaft, HPCs & injectors. Removed cylinder head. Found number 2 head gasket had blown. Measured liner heights. Removed sump, pick up, stiffener plate, piston cooling nozzles, pistons and liners No. 1,2,5 shims all broken. Cleaned counterbores, found all 6 have cracks and need to be cut.

Cleaned and counterbore to .020" all 6 ok.

Cleaned counterbore ledge and fitted .020" shims and liners and clamped and recorded liner heights. Fitted 6 pistons and rods. Fitted cylinder head, cam and cam plates and changed 2 front idler shafts and 8 bolts and carried out base engine timing. Fitted injectors and fuel system, harnesses, set running clearance and carried out full valve set with new engine brake kit.

Installed fuel drain plumbing from fuel rail to drain block.

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Description	Operation	Unit price	Qty	Extension
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Replaced intake manifold sensor plug as the locking tab had broken off. Drilled out broken fan hub bolt. Installed fan hub to spec. Rigged up radiator and moved into washbay. Cleaned radiator and lifted in. Rattled down mount bolts and installed engine fan to spec. Installed stiffener plate, oil pickup and sump to spec.
 Replaced coolant thermostat due to being scored. Fitted Recon turbo, cleaned and lifted radiator in to truck and lifted ac back around to install. Found a AC line had pin hole in it and replaced it. Plumb up radiator to engine and truck, installed boost pipes. Filled engine with new coolant (coolant had traces of soot) and new oil (oil contaminated with coolant).
 Started engine and checked over, install bonnet and test drove, checked over truck and washed down.
 Fitted new bug screen as original was misplaced.
 Cleaned work bay, steam cleaned engine bay, completed paperwork and returned truck to service.

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Material

4386577	CORE, WATER PUMP	1173.34	1	1173.34
2882081	KIT ENGINE BRAKE OVERHAUL	1087.50	1	1087.50
5607734RX	RECON TURBOCHARGER KIT	4763.34	1	4763.34

MATERIAL TOTAL 7024.18

SUB-TOTAL 7024.18

G.S.T 702.42

INVOICE TOTAL 7726.60