

# Cummins South Pacific Pty. Ltd.

**ABN NO. 42006332949**

## WORKSHOP TAX INVOICE

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

**COPY**

**INVOICE NUMBER**

**9557036**

INVOICE DATE

28/10/22

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**Invoice To**

Account Number 2170885  
KEITH HADDAD & SONS PTY LTD  
KEITH HADDAD & SONS PTY LTD  
PO BOX 802  
MOREE  
NSW 2400

## Customer

KEITH HADDAD & SONS PTY LTD  
KEITH HADDAD & SONS PTY LTD  
PO BOX 802  
MOREE  
NSW 2400

Engine Model:	SIGNATURE/ISX/QSX	Eng No:	79924240	Equip Make:	KENWORTH
FleetNo:		Reg No:	CH70UC	Cust Ord NO:	CH70UC
Date in Service:	26/10/16	KLMS:	1042077	HRS:	19760
Repair Date:	04/10/22	Chassis NO:	457430	Currency:	AUD
C.O.No.	6619570	Work ordNo.	2778340	Facility	137

**Complaint:**

Engine replacement  
AdBlue flush, renew filters  
Uprate 550 hp @ 1850 ft lb

**Cause :**

Engine replacement requested by customer

**Correction:**

Guidanz SO Number: 437419

Hrs/Speedo Klms: 19,760 hrs / 1,042,077 kms  
ECM Kms: 1,050,855  
Fuel Burn: 678490 lfb

OLD ESN: 79924240  
NEW ESN: 80442434

Download ECM  
Drain coolant, oil and remove ducting  
Remove bonnet and remove radiator  
Start to disassemble engine removing external components  
(turbo, exhaust manifold, thermostat housing, intake  
manifold, IFSM and ECM)  
Remove rocker cover, front tin cover, timing gears, rocker  
assembly and camshaft  
Remove cylinder head, sump, oil pump, pick up and stiffener  
plate, piston cooling nozzles, pistons and liners  
Clean all removed components, inspect all parts and carry  
out parts list  
Coolant measured out of spec  
Air filter dusty  
Belts cracked  
Front and rear rocker shaft detents elongated  
Exhaust manifold centre section cracked  
Cooling thermostat seal split  
Cyl head bolts x 10 pitted  
Oil pump pickup bore fretted and internal shaft fretted

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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Radiator stay rubbers perished  
Radiator mounts perished  
Vent line brittle/stiff  
Heater hoses perished  
Top & bottom radiator hose split  
Cab mounts cracked  
Front & rear engine mounts worn  
Cam position sensor cracked  
Horton fan bearing worn/noisy  
Alternator bearing noisy  
Dump pipe flange cracked  
Dump pipe rubbers perished  
Oil pressure sensor passing oil  
Fuel pump gear idler and shaft broken  
Block surfaces cracked  
Minor scoring on crankshaft  
Vibration damper dented  
Front gear housing fretted

Discuss findings with customer who elected to replace engine with new engine  
Customer authorised sourcing OEM parts from Brown & Hurley Toowoomba

Remove clutch and gearbox from engine  
Remove wiring harness  
Remove engine from chassis and place on stand  
Spec new engine (remove required parts from old to new engine)  
Turn oil pan to suit new engine and fit new pick up  
Renew engine mounts  
Fit old starter to new engine  
Fit new engine into chassis  
Refit clutch and gearbox  
Rebuild horton fan and bench test for oil leaks - all ok  
Plumb and adjust intake side of engine  
Install OEM oil pressure sensor  
Refit power steering pump with new gasket  
Refit D2 governor valve with new gasket  
Plumb exhaust side of engine  
Fit new drive belts  
Refit serviced radiator

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Refit a/c compressor and condenser  
Make up and fit new heater, radiator and vent lines  
Zip tie engine wiring and hoses  
Install new air filter  
Refit belly bar and fuel tank brace  
Replace broken coolant quick drain fitting  
Replace worn heater taps  
Install new alternator  
Fill system with new coolant and oil  
Carry out rerate to 550 hp @ 1850 ft lb  
Start engine to find active fault code for dosing unit loss of prime  
Renew doser injector, inlet fitting and AdBlue filters  
Carry out flush procedure to receive 100 mls in 6 minutes  
Carry out run in procedure  
Adjust clutch  
Wash engine and truck  
Return vehicle to service

=====

Capped price engine R&R: \$7900.00  
Engine: \$64,781.00  
Labour strip & inspect old engine: \$2016.00  
Labour rekit horton fan: \$504.00  
Labour flush ad blue system: \$336.00  
Horton fan rebuild kit: \$1069.08  
Air filter: \$87.73  
OEM coolant quick drain fitting: \$104.11  
AdBlue filters: \$89.82  
Doser injector: \$138.28  
Doser injector connector: \$51.28  
Subcontract repair exhaust: \$118.75  
Uprate fee: \$1510.00  
Consumables: \$100.00  
Credit Cummins Used offer for old engine: \$4000.00-

TOTAL PRICE: \$74,806.05 + GST

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Description	Operation	Unit price	Qty	Extension
<b>Material</b>				
3824541	DISK SURFACE CONDITIONER		3	
3164067	SEALANT SILICONE ADHESIVE		1	
3391271	LUBRIPLATE 105 GREASE 100		1	
3823258	PAD CLEANING SCOTCHBRITE		2	
52368.02	ENGINE, ISXE5 500 / 1850		1	
78250GL	SILICONE HOSE 915MM LE		1	
4988280	GASKET HYDRAULIC PUMP		2	
6306-2RS2/C5GJB	BEARING, SPIGOT		1	
80271-CM	DAYCO HEATER HOSE		400	
80254GL-CM	HOSE DAYCO SILICONE		150	
185848	GASKET AIR COMPRESSOR		1	
F350080B	KIT OUTBACK UPGRADE HTS S		1	
2866337	GASKET AFM DEVICE		2	
179904	CLAMP HOSE		4	
TB200SL	SPRING LOADED CLAMP		8	
92016	DAYCO AUTOMOTIVE CLAMP		2	
6PK1590	DAYCO BLUE LABEL BELT		1	
DCT110H1RW	TIE-CABLE BRAKE HOSE 19.2		10	
PGXLVITAL-20L	PGXL VITAL ADVANCED COOLA		3	
AF1968M	AIR FILTER		1	
1324.01	PREMIUM BLUE 8600 OIL (W/		50	
715-8016-006	ELBOW, CONNECTOR, 1/4"-3MM		1	
5307918	6 HOLE INJECTOR DOSER		1	
5264404	CONNECTOR, QCK DISCONNECT		1	
HHW0116	FILTER, INTANK ADBLUE		1	
AS2474	AIR OIL SEPARATOR		1	
ISXDUP4	SECOND HAND SIG/ISX CORE		1-	
<b>Subcontract</b>				
5411359	Vent line & fittings		1	
5411669	FITTING FOR OIL SENDER		1	
5411959	12PK2215 belt		1	
5413279	Exhaust repair		1	
<b>Miscellaneous</b>				
	Electronic software		1	
	Rerate to 550 @1850 ft lb		1	
	Environmental Levy		1	

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Description	Operation	Unit price	Qty	Extension
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<b>SUB-TOTAL</b>			74806.05	
<b>G.S.T</b>			7480.61	
<b>INVOICE TOTAL</b>			<b>82286.66</b>	