

# Cummins South Pacific Pty. Ltd.

ABN NO. 42006332949

## WORKSHOP TAX INVOICE



Cummins Mount Isa  
23-35 Northridge Road  
Mount Isa QLD 4825  
Ph 07 4749 8600  
Fax 07 4743 0777

**COPY**

**INVOICE NUMBER**

9783820

**INVOICE DATE**

26/05/23

**PAGE**

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**Invoice To**

Account Number 1301065  
WAGNER INVESTMENTS P/L  
WAGNER INVESTMENTS P/L  
PO BOX 151  
DRAYTON NORTH  
QLD 4350

**Customer**

WAGNER INVESTMENTS P/L  
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PO BOX 151  
DRAYTON NORTH  
QLD 4350

Engine Model:	SIGNATURE/ISX/QSX	Eng No:	80228109	Equip Make:	KENWORTH
FleetNo:	771	Reg No:	XQ91HS	Cust Ord NO:	5048184
Date in Service:	08/06/20	KLMS:	822476	HRS:	17717
Repair Date:	02/05/23	Chassis NO:	467291	Currency:	AUD
C.O.No.	6657434	Work ordNo.	2816807	Facility	139

**Complaint:**

Pressurising Cooling System  
@ 822,476 klms / 17,717 hrs

**Cause:**

Install New Engine as per Quotation # 6657806

**Correction:**

Guidanz SO Number: 00574403

Hrs/Klms: (ECM) 821,689.4 klms / 017736:54:57

Fuel Burn: 850,461.2 litres

Promo ID: TI246

- Drained remaining coolant and removed radiator.
- Stripped sides of head.
- Removed tin cover and gears.
- Removed rocker shafts and injector wiring from in head.
- Removed camshaft and head bolts.
- Lifted head off block and inspected for blown head gasket and found blow marks at cylinder number 2.
- Cleaned head and valve surfaces and measured valve recession. Head valve recession was still in spec.
- Cleaned deck of block and measured liner protrusion on cylinder number 2 and found protrusion to be very low compared to specification at between .005mm to .008mm.
- Spoke to supervisor about findings.
- Removed wiring from block and starter motor.
- Removed AC condensor.
- Assisted with jacking transmission and securing it to jack.
- Assisted with unbolting of transmission to bell housing.
- Removed belly bar.
- Removed seized bolts from engine mounts which took some time
- Lifted engine bottom end from truck and put on engine stand.
- Spec'd up new engine. Fitted new clutch to new engine.
- Swapped starter motor and alternator from old engine to new engine.
- Cleaned and mounted old engine mounts to new engine.
- Swapped sump around and fitted new short oil pickup to

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Description	Operation	Unit price	Qty	Extension
engine.				
-	Removed new oil dipstick and fitted old dipstick in correct position to new engine.			
-	Removed and fitted new front mounts to crossmember.			
-	Rigged new engine up and fitted engine to truck.			
-	Tightened engine mounts.			
-	Wired up starter motor and fitted engine loom.			
	Tidied up engine bay wiring and secured all wiring tightly			
-	Fitted fuel lines and air lines to engine.			
-	Fitted power steering pump and governor to air compressor.			
-	Fitted all hosing and wiring to p clamps correctly and bolted them to sump bolts.			
-	Cleaned radiator and cut new hoses for top and bottom plumbing for radiator.			
-	Lifted radiator into place and fitted fan to fan hub.			
-	Bolted radiator down.			
-	Cut and ran new heater hoses and secured all hoses neatly and securely.			
-	Fitted new air filters and water filter.			
-	Changed sump fitting to quick connect drain fitting.			
-	Fitted quick connect fitting to oil cooler for oil prime fill.			
-	Drained coolant from truck again due to heater tap leaking from tap shaft when cooling system was pressurized.			
-	Removed tap and fitted new tap.			
-	Refilled cooling system and pressure tested system and found system to hold pressure now.			
-	Filled engine oil to full mark.			
-	Tidied truck bay and work area.			
-	Checked truck over after test run following quality control paperwork instructions.			
Promo ID: UY925				
-	Completed JSA			
-	Washed engine. Chocked wheels			
-	Drained coolant			
-	Performed combustion leak test			
-	Refilled coolant			
-	Pressure tested radiator cap			
-	Removed radiator			
-	Removed exhaust side of engine			
-	Unbolted head			
-	Removed head			



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	<ul style="list-style-type: none"> <li>- Cleaned up</li> <li>Promo ID: T0293</li> <li>- JSA LOTO</li> <li>- Removed dump pipe</li> <li>- Secured gear box to the jack</li> <li>- Unbolted gear box from engine</li> <li>- Removed engine mount bolts</li> <li>- Removed engine</li> <li>- Replaced engine mount rubbers</li> <li>- Replaced output shaft and cross shaft</li> <li>- Installed new engine</li> <li>- Bolted to gear box</li> <li>- Installed engine mount bolts</li> <li>- Plumbed exhaust side of engine</li> <li>- Plumbed radiator</li> <li>- Filled coolant</li> <li>- Ran up all ok</li> <li>- Washed engine bay</li> <li>- Road tested</li> <li>- Checked over all ok</li> <li>- Packed tools</li> <li>- Cleaned work area</li> </ul> <p>Promo ID: 1025779,</p> <ul style="list-style-type: none"> <li>- JSA, Lock on,</li> <li>- Checked over, refit brackets for wiring on engine mount,</li> <li>- Thermostat housing, gear housing, tidy wiring,</li> <li>- Assisted with clutch lever install,</li> <li>- Installed clutch quadrant,</li> <li>- Adjusted clutch free play. and clutch brake.</li> <li>- Filled engine oil,</li> <li>- Unisolated vehicle,</li> <li>- Connected to Insite, calibrated new ECM to original ECM calcode,</li> <li>- Laptop froze during ECM calibration, restarted and calibrated ECM,</li> <li>- Transferred ECM template,</li> <li>- Checked features and parameters, ALL ok, Sent to ECM.</li> <li>- All transferred successfully.</li> <li>- Attempted to start, found low battery voltage,</li> <li>- Placed batteries on charge, jump leads on starter motor.</li> </ul>			

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- Attempted to start, found will not start, found no fuel pressure reading to injector rail pressure sensor.
- New engine under warranty,

\*\* New Engine # 80384961 \*\*

\*\*\*\*\*  
As per Quotation # 6657806 [REDACTED]  
In Addition to Quoted price:

- 3 hrs add labour (input shaft kit, cross shaft bushes clutch & linkages) [REDACTED]
- 1 x Oil Suction Connection (4918022) [REDACTED]

Less Engine Oil (50L) inc in capped install [REDACTED]  
Less Extended Warranty [REDACTED]  
(will be Invoiced on a separate invoice)

\*\*\*\*\*

\*\*\*Banking Details\*\*\*

[REDACTED]  
Include Account and Invoice Numbers in Payment Reference

Description	Operation	Unit price	Qty	Extension
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**Material**

3678756	SEAL O RING	1
4918022	CONNECTION OIL SUCTION	1
52377.02	ENGINE, ISXE5 500 / 1850	1
4988280	GASKET HYDRAULIC PUMP	1
185848	GASKET AIR COMPRESSOR	1

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DCT110	CABLE TIE, DUAL CLAMP 485	10
80244GL-CM	HOSE DAYCO SILICONE	125
80261GL-CM	HOSE DAYCO SILICONE	270
78250GL	SILICONE HOSE 915MM LE	1
AF887KM	AIR FILTER	2
1324.01	PREMIUM BLUE 8600 OIL (W/	50
2866337	GASKET AFM DEVICE	2
ISXDUP	ENGINE PARTS ONLY	1-

