



Cummins South Pacific Pty. Ltd.

ABN NO. 42006332949

WORKSHOP TAX INVOICE

Wetherill Park
Private Bag 150
Wetherill Park NSW 2164
Ph: 02 9616 5300
Fax: 02 9616 5399

COPY

INVOICE NUMBER

9417296

INVOICE DATE

02/07/22

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Invoice To

Account Number 2102579
OOMA ENTERPRISES NSW PTY LTD
"OOMA"
HENRY LAWSON WAY
FORBES
NSW 2871

Customer

OOMA ENTERPRISES NSW PTY LTD
HENRY LAWSON WAY
FORBES
NSW 2871

Engine Model:	SIGNATURE/ISX/QSX	Eng No:	79965490	Equip Make:	KENWORTH
FleetNo:		Reg No:	XN56BP	Cust Ord NO:	
Date in Service:	02/08/17	KLMS:		HRS:	15427
Repair Date:	02/07/22	Chassis NO:	458705	Currency:	AUD
C.O.No.	6568153	Work ordNo.	2751962	Facility	210

Complaint:

Rebuild kit and additional items

Cause:

Maintenance / Customer request

Correction:

CSS - 00277892

Odometer: 862,723km

Hrs: 15,427

Fuel Burn: 556,471L

Correction:

Isolated machine. Connected to INSITE & captured ECM download.

Found codes for misaligned cam and crank shaft, leaking front seal, and was able to slide the vibration damper forwards.

Dropped oil filter and cut open, found chunks of metal caught in filter. Dropped oil.

Dropped oil sump, removed oil pick-up, attempted to remove stiffener plate but bolts were seized. Removed all but 1.

Removed remaining bolt with twist socket and breaker bar.

Inspected crankshaft for visible damage, found nothing.

Checked free-play and found in-spec.

Removed front tin-cover, found bottom nut behind dampener was rounded. Removed dampener.

On inspection of the gear-train found upper idler to be loose, bearing seized to carrier.

Inspected front gear housing for re-use, OKAY. Found no leaks around gasket surface to block.

Inspected front cover, found to be warped and sheered.

Removed all gears from drive-train. Found tooth broken from scissor gear and crankshaft adapter gear, found adjustable idler to have scuff marks and damage to gear teeth. Found damage to scissor gear and adjustable cam idler gear retaining plate.

Removed CAC and intake pipes, removed rocker-cover and inspected top-end, found levers to be smashed and broken.

Dropped main-caps No. 2, 4 and 6 and inspected crankshaft

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and bearings. Found light scoring, can be re-used.
Dropped big-end caps No. 3 and 4, inspected bearings and crankshaft found no damage. Good for re-use.
Measured gears with no damage to ensure OKAY for re-use.
Measured and cleaned gears and carriers that were re-usable, IN SPEC.
Measured liner heights - out of spec.
Removed front gear housing and found cracked, removed oil pump, crankshaft adaptor, tone wheel, crankshaft gear.
Measured vibration damper and found to be out of spec by 0.010".
Removed and striped oil cooler, buffed & cleaned.
Cleaned block deck and head bolt holes.
Inspected compressor and found tooth missing form gear.
Removed pistons, piston cooling nozzles and liners.
Cleaned counterbores, stripped pistons, prepped rods and caps.
Assembled pistons and installed with new rod bearings.
Carried out bearing roll, cleaned sump mounting surface, installed liners and measured heights.
Spec injectors and installed into Recon head with fuel crossovers. Installed intake manifold, injector supply lines & fuel rail.
Installed head, replaced air compressor, thermostat seal, thermostat.
Dismantled cooling package and cleaned CAC, cleaned core and end tanks.
Cleaned sump from metal debris.
Installed crank gear, camshaft, oil thermostat and oil cooler, exhaust manifold and turbo.
Installed gear housing & geartrain and completed base engine timing.
Removed & replaced front engine mounts with new.
Fitted oil pump - checked backlash in spec.
Fitted bottom end - Underneath Wiring done Belly bar fitted.
Fitted external - tensioners - AC etc.
Backside idler done to new campaign.,
Replaced Vibration dampener, built rocker shafts, fitted and set valves. Fitted Fan hub + Fan
Fitted Radiator plumbing + fuel cooler, filled coolant and pressure primed oil.
Checked over & started engine.

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Cleaned work bay, steam cleaned engine bay, completed paperwork and returned truck to service.

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Material

FS19764	ELEMENT		1	
WD13-1012	BUSHING FRONT ENGINE 2		2	
WK066-404	BUSHING FRONT ENGINE 1		2	
89448	BELT TENSIONER		1	
WK066-177	RADITOR MOUNT RUBBERS SMA		2	
5607734RX	RECON TURBOCHARGER KIT (E		1	
AF1969M	AIR FILTER		1	
5290118	CLAMP V BAND		1	
WF2127	COOLANT FILTER (NO SCA)		1	
12PK2380	BELT V RIBBED DAYCO POLY		1	
PGXLHD-20L	PGXL HD PREMIUM COOLANT,		3	
PGXLHD-5L	PGXL HD PREMIUM COOLANT,		1	
5693737	KIT, OVERHAUL		1	

MATERIAL TOTAL

SUB-TOTAL

G.S.T

INVOICE TOTAL