The EC55B excavator in detail

Engine

Low-emission, water-cooled, 4-cylinder, 16 valve, direct injection diesel engine meeting STEP 2 environmental regulations.

Type	Yanmar 4TNV94L-XVC1
Cubic capacity	3.05
Max. power (SAE J 1349)	38 kW (52 hp)
Installed horsepower (ISO	9249/DIN 6271)
	37 kW (50 hp) at 2100 rpm
Maximum torque	201 Nm at 1400 rpm
Bore x stroke	94 mm x 110 mm

Electrical equipment

Voltage	12 V
Battery	12 V - 100 AH
Alternator	12 V - 55 A
Starter	. 12 V - 2.3 kW

Hydraulic system

Variable displacement Total Power Control hydraulic system. The system provides total independence of all movements and of travel. It incorporates in addition the following functions:

- Priority to the boom for faster raising
- Priority to the dipper for fast cycle times when doing levelling and earth work
- Boom anti-lowering device

Control power-assisted hydraulic controls

Slewing system

Turret slewing is provided by an axial piston hydraulic motor which drives a ball internal slew ring with remote lubrication.

Slewing speed	10 rpm
	automatic brake

Bucket performances

Excavation force	4070 daN
Tear-out force	2730 daN

Undercarriage

The rollers and the tensioning wheels are lubricated	d for life.
Bottom/top rollers per side	
Width of the standard tracks (rubber)	400 mm
Width of the optional tracks (steel)	380 mm
Track tension by greas	e piston
Blade (width x height) 1920 x 3	360 mm
Safety valve on the blade cylinder.	

Travel system

Capacities

Fuel tank	90	litres
Hydraulic reservoir	90	litres
Total capacity of the hydraulic circuit		
Engine oil sump	10.1	litres
Coolant	12.1	litres

Weights

Operational weight and ground pres	ssure:
Rubber tracks	5200 kg - 0.33 kg/cm ²
Steel tracks	5330 kg - 0.36 kg/cm ²

Sound levels

Results of dynamic measurements:		
Sound level exterior (LwA)	98	dB(A)
Sound level in the cab (LpA)	78	dB(A)
The sound levels conform to EC directive n° 86/6		
amendments.		