



DIESEL ENGINE	Stage IIIA / Tier 3	Tier 4 Final EPA	Stage V
Model :	YANMAR 4TNV88	KOHLER series KDI 1903 TCR	KOHLER series KDI 1903 TCR
Type :	Naturally aspirated	Turbo Intercooler	Turbo Intercooler
Total displacement, no Cylinders:	2,190cc - 4 in line	1,861cc - 3 in line	1,861cc - 3 in line
Injection :	Direct with mechanical control	Electronic control with Common Rail	Electronic control with Common Rail
Aftertreatment sys. :	-	EGR + DOC	EGR + DOC + DPF
Cooling :	air water, dry air filter	air water, dry air filter	air water, dry air filter
Maximum power :	36.9 kW (49 hp)	42 kW (56 hp)	42 kW (56 hp)
Adj. power :	32 kW (44 hp) (2,600 rpm)	42 kW (2,600 rpm)	42 kW (2,600 rpm)
Maximum torque :	139 Nm (1,200 rpm)	225 Nm (1,500 rpm)	225 Nm (1,500 rpm)
Alternator :	12V - 40 A	12V - 55 A	12V - 55 A

ELECTRIC SYSTEM

Battery: 12 V - 80 Ah (600 A)
Led road light system, rear working lights (optional).

4X4 FOUR-WHEEL DRIVE

Hydrostatic "automotive" transmission with variable displacement pump and variable displacement hydraulic motor with electro-hydraulic control.

SPEED

	forward gears	reverse gears
Slow	0 - 7.1 km/h	0 - 7.1 km/h
Fast	0 - 21.0 km/h	0 - 21.0 km/h

AXLES AND WHEELS

Front load-bearing, oscillating ($\pm 6,5^\circ$) with planetary reduction gears on the wheel hubs.

Rear load-bearing with planetary reduction gears on the wheel hubs and directly flanged gearbox.

Tyres 12.5 - 18 16PR

BRAKES

Internal oil-bath disc service and emergency brakes acting on the 4 wheels, activation with pump on independent dual circuit.

Negative type parking brake, with internal oil-bath discs on the front axle and electro-hydraulically controlled release.

STEERING

Assisted by means of load-sensing power steering acting on 2 half-frames by means of two opposed jacks.

MIXING AND POURING

Double-cone drum with double-spiral mixing screws

Geometrical drum volume: 2,560 L

Drum rotation speed: 20 rpm.

Class S1 concrete produced as : 2 cu m

Drum rotation by means of a piston pump with variable flow rate and an orbital hydraulic motor in closed circuit with infinitesimal electrical control positioned in the cabin and at the rear of the machine.

Drum raising up to the horizontal position by means of 2 double-acting jacks.

Chute with manual tilting independent of the mixing drum inclination and 180° rotation. Removable chute, for direct unloading from hopper.

1 chute extensions provided as standard equipment.

WATER SYSTEM

"Self-priming" volumetric water pump with quick-suction.

Max. capacity: 140 L/min.

Maximum head: 3 bar

One sheet tank on the engine side with a capacity of 300 L.

Mix Control system for programmable and controlled management of water feeding to the drum and of mixing and unloading from the ground panel. Water feeding to the drum controlled by means of electromagnetic flow meter and fed litre reading on both the cabin display and at the rear of the vehicle.

Water pump activation from the driver's seat and from the ground panel. Suction selection from the ground with quick-coupling pipes.

EQUIPMENT HYDRAULIC SYSTEM

Gear pump

Max. flow rate: 35 L/min.

Maximum pressure: 245 bar

3-element distributor with joystick.

Aluminium heat exchanger for hydraulic oil cooling.

Pressurised closed-circuit intake with oil filter replaceable from the outside.

LOADER

Loading device with grab bucket and lifting arms controlled by double-acting hydraulic cylinders. Automatic unloading hatch driven by a mechanical lever.

Volumetric capacity: 670 L

Number of loaderfuls per load: around 3/4

CABIN

Open cab designed according to ROPS & FOPS Lev. I (FOPS II en option), criteria, windows on three sides. Porte cabin en option. Vitre de porte à ouverture coulissante. 180° pivoting driving post. Anatomic seat with flexible suspension and height adjustment, seat belts. Driving and equipment controls with ergonomic arrangement. LCD TV display with camera for rear visibility, optional/standard depending on engine type.

SERVICE REFILL CAPACITIES

Fuel tank, 50 L

Total hydraulic system capacity: 80 L

Engine oil: 7 kg

WEIGHTS

Operating weight: 4,300 kg

Max gross weight: 9,400 kg

load-carrying capacity: 4,800 kg