



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 :	Aspirated	Turbo Intercooler	Turbo Intercooler
Total displacement, no Cylinders:	2190cc - 4 in line	1861cc - 3 in line	1861cc - 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) a 2600 rpm	42 kW (2600 rpm)	42 kW (2600 rpm)
Maximum torque :	139 Nm a 1200 rpm	225 Nm a 1500 rpm	225 Nm a 1500 rpm
Alternator :	12V - 40 A	12V - 55 A	12V - 55 A

ELECTRIC SYSTEM

Battery:
 Stage III A 12 V - 80 Ah (560 A)
 Tier 4 final..... 12 V - 70 Ah (720 A)
 Stage V..... 12 V - 70 Ah (720 A)
 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.
 Electro-hydraulically controlled mechanical gearbox for "working speed" and "road transfer" speed.

SPEED

4 forward gears 2 reverse gears
 I° 0 - 5.0 km/h 0 - 5.0 km/h
 II° 0 - 7.2 km/h 0 - 5.0 km/h
 III° 0 - 14.2 km/h 0 - 14.2 km/h
 IV° 0 - 20.2 km/h 0 - 14.2 km/h
 Traction / weight ratio 55%

AXLES AND WHEELS

Front load-bearing, oscillating ($\pm 7^\circ$) with planetary reduction gears on the wheel hubs.
 Rear load-bearing with planetary reduction gears on the wheel hubs and directly flanged gearbox.
 Tyres 12.0/75-18 12PR

BRAKES

Internal oil-bath disc service and emergency brakes acting on the 4 wheels, activation with pump on independent dual circuit.
 Drum parking brake on the front axle with lever control.

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:2560 litres
 Drum rotation speed: 20 rpm.
 Class S1 concrete produced as :1.8 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 litres/min.
 Maximum head: 3 bar
 One sheet tank on the engine side with a capacity of 210 litres.
 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 litres/min.
 Maximum pressure: 170 bar
 3-element distributor with joystick.
 Aluminium heat exchanger for hydraulic oil cooling.
 Pressurised closed-circuit intake with oil filter replaceable from the outside.

LOADING SHOVEL

Loading arms with fixed loader and automatic unloading hatch.
 Volumetric capacity: 470 litres
 Number of shovelfuls per load5 - 6
 Production capacity: up to 4 cycles/hour

CAB

Open cab designed according to ROPS & FOPS Lev. I criteria, windows on three sides.
 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, 46 litres
 Total hydraulic system capacity:..... 67 litres
 Engine oil: 7 kg

WEIGHTS

Operatingweight: 3700 kg
 Max gross weight:..... 8400 kg
 load-carrying capacity: 4700 kg