



DIESEL ENGINE	No emission compliance	Stage IIIA / Tier 3	Tier 4 Final EPA	Stage V
Model :	PERKINS serie 1104	PERKINS serie 1104	KOHLER serie KDI 2504	KOHLER serie KDI 2504
Type :	Aspirated	Turbo	Turbo Intercooler	Turbo Intercooler
Total displacement :	4400cc - 4 in linea	4400cc - 4 in line	2482cc - 4 in line	2482cc - 4 in line
Injection :	Mechanical control with direct injection	Mechanical control with direct injection	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	air water, dry air filter
Maximum power :	64.5 kW (87 Hp)	74 kW (101 Hp)	55,4 kW (74,3 Hp)	55,4 kW (74,3 Hp)
Adj. power. :	64 kW (2400 rpm)	70 kW (2200 rpm)	55,4 kW (2300 rpm)	55,4 kW (2300 rpm)
Maximum torque :	293 Nm a 1400 rpm	392 Nm a 1400 rpm	300 Nm a 1500 rpm	300 Nm a 1500 rpm
Alternator :	12V - 65 A	12V - 65 A	12V - 80 A	12V - 90 A

### ELECTRIC SYSTEM

Battery: ..... 12 V - 132 Ah (600 A)  
Road light system, rear working lights.

### 4X4 FOUR-WHEEL DRIVE

Hydrostatic "automotive" transmission with variable displacement pump and variable displacement hydraulic motor with electro-hydraulic control, and reverse gear control on the steering wheel.  
Electro-hydraulically controlled mechanical gearbox for "working speed" and "road transfer" speed.

### SPEED

4 forward gears      2 reverse gears  
Ist 0 - 3.0 Km/h      0 - 3.0 Km/h  
IInd 0 - 7.2 Km/h      0 - 3.0 Km/h  
IIIrd 0 - 10.0 Km/h      0 - 10.0 Km/h  
IVth 0 - 25.0 Km/h      0 - 10.0 Km/h

Traction / weight ratio ..... 48%

### AXLES AND WHEELS

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

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

Tyres ..... 405/70-20 16PR

### BRAKES

Internal oil-bath disc service and emergency brakes acting on the 4 wheels, activation with miniservo pump on independent dual circuit.  
Negative type parking brake, with internal oil-bath discs on the rear axle and electro-hydraulically controlled release.

### STEERING

Assisted by means of load-sensing power steering with double displacement on 4 steering wheels; steering selection device for: 2 steering wheels, 4 steering wheels - crab steering.

### EQUIPMENT HYDRAULIC SYSTEM

Gear pump  
Max. flow rate: ..... 45 litres/min.  
Maximum pressure: ..... 230 bar  
2 - elements distributor.  
Aluminium heat exchanger for hydraulic oil cooling.  
Pressurised closed-circuit intake with oil filter replaceable from the outside.

### DUMP BODY

Dump body with tilting by means of 2 double-acting jacks. Orientation over  $180^\circ$  for trilateral unloading by means of "heavy-duty" ball fifth wheel, with hydraulic rotation and automatic locking by means of negative brake.  
Struck capacity ..... 3500 litres  
SAE heaped capacity ..... 4800 litres

### CAB

Closed cab with heating system, designed in accordance with ROPS FOPS.  
 $180^\circ$  pivoting driving post. Anatomic seat with flexible suspension and height adjustment, seat belts.  
Driving and equipment controls with ergonomic arrangement.  
Sliding window on cabin door.  
LCD TV display with camera for rear visibility.

### SERVICE REFILL CAPACITIES

Fuel tank in cross-linked polyethylene, 95 litres  
Total hydraulic system capacity: ..... 105 litres  
Engine oil: ..... 8 kg

### WEIGHTS

Operating weight ..... 5400 kg  
Max gross weight: ..... 14800 kg  
load-carrying capacity: ..... 9000 kg