



DIESEL ENGINE	Stage IIIA / Tier 3	Stage IIIB / Tier 4 Interim
Model :	PERKINS series 1,104	PERKINS series 854 E
Type :	Turbo	Turbo
Total displacement, no Cylinders:	4,400cc - 4 in line	3,400cc - 4 in line + DPF
Injection :	mechanical control with direct injection	Electronic control with direct injection
Cooling :	air water, dry air filter	air water, dry air filter
Maximum power:	83 kW (113 Hp)	83 kW (113 Hp)
Adj. power :	83 kW (2,200 rpm)	83 kW (2,200 rpm)
Maximum torque:	418 Nm a 1,400 rpm	450 Nm a 1,400 rpm
Alternator:	12 V - 65 A	12 V - 80 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 4 reverse gears

I° 0 - 3.7 Km/h 0 - 3.7 Km/h

II° 0 - 9.5 Km/h 0 - 3.7 Km/h

III° 0 - 11.8 Km/h 0 - 11.8 Km/h

IV° 0 - 30.0 Km/h 0 - 11.8 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 18 -19.5 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: 180 bar

1-element distributor.

Aluminium heat exchanger for hydraulic oil cooling.

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

DUMP BODY

Reinforced dump body with tilting by means of 2 double-acting jacks.

Struck capacity 4,200 litres

SAE heaped capacity 5,600 litres

CAB

Closed cab with heating system, designed in accordance with ROPS FOPS (level I), FOPS (level II) standards.

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.

SERVICE REFILL CAPACITIES

Fuel tank in cross-linked polyethylene, 95 litres

Total hydraulic system capacity: 105 litres

Engine oil: 7.96 kg

WEIGHTS

Operating weight 5,350 kg

Max gross weight: 15,700 kg

load-carrying capacity: 10,350 kg