



### ENGINE

#### Cummins, QSM11-335 (Euromot IIIA-US Tier 3)

Six cylinder four-stroke direct injection diesel engine with turbo charging and air to air intercooler.

Engine equipped with 4 valves/cylinder and latest generation full electronic fuel metering.

Displacement: ..... 10,8 dm<sup>3</sup>

Bore: ..... 125 mm

Stroke: ..... 147 mm

Compression ratio: ..... 16.3:1

Output: 272 kW (365 Hp) at 1800 rpm  
250 kW (335 Hp) at 2100 rpm

Torque: 1674 Nm at 1000 - 1400 rpm (Acc. ISO 3046)

### GEARBOX

#### ZF, type, 6WG260

Full powershift transmission with 6 speeds forward and 3 speeds reverse.

Well-matched torque converter equipped with Lock-Up clutch ensuring the lowest possible fuel consumption.

Latest generation electronic transmission controller providing the best possible shift quality and transmission life.

Integrated pneumatically lockable longitudinal differential with 1/3 front: 2/3 rear torque split.

Gear ratio's	Speed (km/h)
5.350	4,7 (F+R)
3.445	7,3 (F)
2.206	11,4 (F+R)
1.421	17,7 (F)
0.969	25,9 (F+R)
0.624	40,3 (F)

### FRONT AXLE

#### Kessler LT81

Heavy duty front axle with planetary wheel ends and 19.8:1 reduction ratio  
Capacity: 25000kg at 10km/h\*

\*Actual axle load capacity depending on tyre load rating.

### REAR AXLE

#### Kessler D91

Extreme heavy duty rear axle with planetary wheel ends and 19.33:1 reduction ratio  
Capacity: 48000kg at 10km/h\*

\*Actual axle load capacity depending on tyre load rating.

### SUSPENSION

**Front:** Parabolic 5 leaf springs in rubber mountings with 2 telescopic shock absorbers and 2 additional rubber springs. Fully maintenance-free system.

**Rear:** Directly bolted to chassis frame.

#### Optional on rear axle:

- Air-suspension with 2 rubber stops and triangle type stabiliser.

### RIMS AND TYRES

**Tyres:** 12.00R24 Goodyear MSD tubeless mounted (6 pieces)

**Rims front:** Extreme heavy Duty 12 stud disc wheels 8.5-24.

**Rims rear:** Extreme heavy Duty 24 stud disc wheels 8.5-24.

#### Optional:

- Tyres 12.00R24 XZM Michelin tubeless mounted.

### STEERING SYSTEM

Fully hydrostatic orbitrol steering system with priority valve and 2 double acting steering cylinders.

Emergency steering property.

Steering wheel diameter 350 mm.

Turning radius over front bumper left & right: 7150mm (Wheelbase 3200mm)

### 5TH WHEEL

#### 2" Cardanic cast steel plate

Technical capacity 45.000 kgs.

Lifting capacity 45.000 kgs\*.

Pneumatic unlocking of 5th wheel, operated from cabin.

Indicator light for positive locking inside the cabin.

Welded lifting frame construction from stabile and strong steel plate.

**Optional:** 3,5 " Cardanic 5th wheel

\*Actual lifting capacity depending on tyre load ratings and 5<sup>th</sup> wheel height.

# Terberg Benschop B.V.

P.O. Box 2, 3405 ZG Benschop, Holland

Tel.(31)-348-459211 - Fax (31)-348-451934 - e-mail: info@terbergbenschop.nl - Internet: http://www.terbergbenschop.nl

## HYDRAULIC SYSTEM

Engine driven hydraulic pump for steering and lifting of the 5th wheel plate, directly mounted to engine, with priority valve for the steering system.

Hydraulic oil tank protected mounted on the right hand side.

Volume: 200dm<sup>3</sup> (350dm<sup>3</sup> as option).

Hydraulic valve electrically operated from inside the cab to lift/lower/hold the 5th wheel.

Working pressure 230 Bar

2 heavy-duty hydraulic 2 stage telescopic lift rams.

## CHASSIS

Welded construction of rolled steel channels with reinforcement strips on top and bottom.

Air-reservoirs, fuel tank and hydraulic oil tank protected mounted inside the chassis, access steps with anti-slip surface integrated in chassis creating a safe and easy access to the cab from both sides.

Reinforced diameter 50mm towing pin attachment at front- and rear.

## BRAKE SYSTEM

2-Cylinder 636cc air compressor.

Full air brake system with split front- and rear-axle circuits.

Front axle and rear axle with Simplex wedge-brake system and automatic slack adjusters.

Tank reservoirs: 4 x 30 dm<sup>3</sup>. Total 120 dm<sup>3</sup>.

2 Line trailer brake system mounted on rearside of cabin, with yellow and red spiral hoses with glad-hands.

Standard air dryer with integrated air pressure regulator.

Brake cylinders: Front axle diagram and Rear axle combined diagram/spring brake.

Brake pressure: 7.5-8.1 Bar

## FUEL TANK

Capacity 350 dm<sup>3</sup> and mounted on the left hand side.

## COOLING SYSTEM

Fin and tube type radiator of heavy-duty construction mounted on rubber silent blocks with separate air-cooled transmission-oil cooler and air to air intercooler.

## EXHAUST

Muffler with vertical pipe.

Exhaust pipe in critical area protected with steel grille.

## ELECTRICAL SYSTEM

24 Volt negative earth.

Alternator : 28 V/70 A

Batteries : 2 x 12 Volt / 180 Ah

Output starter : 8 kW

Fuses and relays mounted in central electrical box.

Wiring with code numbers and easy readable/visible mounted in central electrical box.

Central electrical box easily accessible from inside and outside of the cabin.

7 pin S.A.E. socket at rear of cab for trailer connection (DIN ISO 1185).

## LIGHTING

H4 headlights with dipped and mainbeam and direction indicators.

Rear lights mounted behind cabin, with direction indicators and brake lights.

5th wheel floodlight behind cabin.

Mounting for rotating beacon light.

Gauge illumination.

Interior light in cabin.

## CABIN

1 person - left hand drive position.

With 180° swivelling seat.

### Dimensions inside:

- width : 1350 mm
- length : 1550 mm
- height : 1550 mm

Cabin construction of over dimensioned strong steel profiles to resist latest Rops/Fops regulations.

Cab comfortable mounted on 2 anti-vibration mounts at the front and with standard air suspension on rear cab mounting point.

Entrance to cab by generously dimensioned rear sliding door with full width window pane.

Vertical electrically operated sliding window at drivers side.

Cabin can be tilted with hydraulic hand pump to 65°

Large windows for excellent visibility.

All windowpanes from safety glass and tinted.

Front windowpane layered with a total thickness of 6,76 mm

Noise insulation exceeds international standards.

Drivers seat with air suspension and fully adjustable, mounted on a 180° swivelling console for easy entrance/exit to/from drivers position.

Demister/heater with 3 speed blower, recirculation system and standard suction filter.

Steering column with 2 brake pedals and 1 accelerator pedal.

### Side dashboard switches:

- Ignition
- Wiper rear
- Differential lock transferbox
- Differential lock rear axle
- Work light
- Hazard lights
- Lighting
- Electric window driver side

### Steering console:

- Combi switch for:
  - \* Direction indicators
  - \* Wiper front 2 speed
  - \* Hi/Low beam and headlight flasher
  - \* Horn
- Gearbox selector
- Switches for:
  - \* 5th wheel high/low
  - \* 5th wheel unlocking (2x)
  - \* Unlocking swivelling seat
- Control lights:
  - \* Alternator charging
  - \* Direction indicator
  - \* Hi beam
  - \* Differential lock interaxle differential
  - \* Differential lock rear axle
  - \* Handbrake activated
  - \* Airfilter clogged
- Voltmeter
- Engine revolution counter
- Running hours counter
- Warning lights/check system with optical signal and buzzer on:
  - \* Low voltage
  - \* Temperature gearbox
  - \* Oil pressure engine
  - \* Temperature engine
  - \* Air pressure circuit 1
  - \* Air pressure circuit 2
  - \* Low fuel level