



### ENGINE

#### Mercedes OM906LA (Euromot IIIA)

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

Engine equipped with engine brake to enable a safe/fast downhill operation and to ensure optimized brake wear.

Displacement: ..... 6,4 dm<sup>3</sup>

Bore: ..... 102 mms

Stroke: ..... 130 mms

Compression ratio: ..... 18,0:1

Output: 205 kW (275 Hp) at 2200 rpm

Torque: ... 1100 Nm at 1200-1600 rpm

Acc. ECE 80/1269

#### Optional:

#### Volvo, TAD750VE (Euromot IIIA)

Six cylinder four-stroke direct injection diesel engine with turbo charging and intercooler. Fuel system with electronically controlled High Pressure Common Rail fuel injection.

Displacement: ..... 7,15 dm<sup>3</sup>

Bore: ..... 108 mms

Stroke: ..... 130 mms

Compression ratio: ..... 18,1:1

Output: 170 kW (231Hp) at 2300 rpm

Torque: ..... 952 Nm at 1500 rpm

Acc. ISO 3046

### GEARBOX

#### ZF, type, 6WG211

- Powershift transmission with standard Lock-Up clutch ensuring the lowest possible fuel consumption with 6 speeds forward and 3 gears reverse.

*Gear ratio's*                      *theoretical speed (km/h)*

5.683F+5.041R                  4+5 (F+R)

3.702F                              6 (F)

2.304F+2.044R                  10+11(F+R)

1.501F                              15 (F)

0.963F+0.854R                  23+26(F+R)

0.627                                35 (F)

(Tyre size 13R22.5, axle ratio 16.5)

#### In combination with ZF transmission:

Axletech transercase with permanent frontwheeldrive and integrated pneumatically lockable longitudinal differential with 1/3 front: 2/3 rear torque split.

Reduction ratio 1.38:1

#### Optional, (only in combination with Volvo TAD750VE engine):

- Clark powershift R 32621  
6 gears forward and reverse.  
(Min. WB 3100 mm)

### FRONT AXLE

#### Kessler

Frontaxle with planetary wheelends

Capacity 20.000 kgs (20 km/h)\*

Reduction ratio 16.3:1

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

### REAR AXLE

#### Kessler

Rearaxle with planetary wheelends

Capacity 35.000 kgs (20 km/h)\*

Reduction ratio 16.44:1

Differential lock : Automatic limited slip 25%

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

### SUSPENSION

**Front:** Parabolic leafsprings in rubber mountings with 2 telescopic shockabsorbers and additional rubber stops. Maintenance free system.

**Rear:** Directly bolted to chassisframe.

#### Optional:

- Air-suspension with rubber stops

### RIMS AND TYRES

**Tyres:** 13R22.5 (6 pieces)

**Rims:** 10 stud discwheels 22,5 x 9,0

### STEERING SYSTEM

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

Emergency steering property.

Steeringwheeldiameter 350 mm

Turningcircle over frontbumper (m)

	Driver side	Non Driver side
W.B.2900	12.600	12.100
W.B.3100	13.120	12.620
W.B.3200	13.380	12.880
W.B.3300	13.640	13.140
W.B.3500	14.160	13.660

### 5TH WHEEL

#### 2" Cast steel plate

Technical capacity 36.000 kgs.

Lifting capacity 35.000 kgs\*.

Pneumatic unlocking of 5th wheel, operated from cabin.

Indicatorlight for positive locking inside the cabin.

Welded liftingframe construction from stabile and strong steelplate.

All rotating points with oscillating bearings

#### Optional:

- 3,5 " 5th wheel
- Cardanic mounted 5th wheel (2" or 3,5")

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

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## HYDRAULIC SYSTEM

Engine driven hydraulic pump for steering and lifting 5th wheel plate, directly mounted to gearbox, with priority valve for the steering system. Hydraulic oiltank protected mounted inside the chassisframe. Tank capacity 110 dm<sup>3</sup>. Working pressure 200 Bar  
2 heavy-duty hydraulic 2 stage telescopic liftrams

## CHASSIS

Welded construction of rolled steel channels 220x120x10 mm and strengthened with strip: 30x120 mm. Airreservoirs and fuel tank protected mounted inside the chassis, access steps with anti-slip surface integrated in chassis. Towing pin attachment at front- and rear.

## BRAKE SYSTEM

Full air brakesystem with split front- and rear-axle circuits. Frontaxle with Simplex wedge-brake system. Rearaxle with high capacity Twin jaw dry disk brake system. Automatic slack adjusters front and rear. Tankreservoirs: 3 x 40 dm<sup>3</sup>. Total 120 dm<sup>3</sup>.  
2 Line trailerbrakesystem mounted on rearside of cabin, with yellow and red spiralhoses with glad-hands. Airdryer with integrated airpressure regulator. Brakecylinders: Frontaxle diagram and Rearaxle springbrake. Brake pressure: 7.5-8.1 Bar

## FUEL TANK

Capacity 200 dm<sup>3</sup> and integrated with hydraulic tank.

## COOLING SYSTEM

Fin and tube type radiator of heavy-duty construction mounted on rubber silentblocks with separate air to air transmission oilcooler and engine intercooler all mounted side by side.

## EXHAUST

Muffler with vertical pipe. Exhaustpipe in critical area protected with steel grille.

## ELECTRICAL SYSTEM

24 Volt negative earth.  
Alternator : 28 V/80 A  
Batteries : 2 x 12 Volt / 135 Ah  
Output starter : 4 kW (Mercedes)  
Output starter : 5,5 kW (Volvo)  
Fuses and relays mounted in central electrical box.  
Wiring with code numbers and easy readable/visible mounted in central electrical box.  
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. Rearlights on rear of chassis, with direction indicators and brake lights. 5th wheel floodlight behind cabin. Mounting for rotating beaconlight. 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 overdimensioned strong steel profiles to resist latest Rops/Fops regulations. Cab comfortable mounted on 3 anti-vibration mounts. Entrance to cab by rear sliding door with full width window pane. Vertical electric sliding window at drivers side. Cabin can be tilted with hydraulic handpump to 65°

Large windows for excellent visibility. All windowpanes safety glass and tinted. Front windowpane layered with a total thickness of 6,76 mm  
Noise insulation exceeds international standards.

Driversseat with airsuspension and fully adjustable, mounted on a 180° swivelling console for easy entrance/exit to/from drivers position.

Demister/heater with 3 speed blower and recirculation system.

Steering column with 2 brake pedals and 1 accelerator pedal.

## Side dashboard switches:

- Ignition
- Wiper rear
- Differentiallock transfercase
- Worklight
- Hazard lights
- Lighting
- 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
- Controllights:
  - \* Alternator charging
  - \* Direction indicator
  - \* Hi beam
  - \* Differential lock transfercase
  - \* Handbrake activated
  - \* Airfilter clogged
- Voltmeter
- Engine revolution counter
- Running hours counter
- Warning lights/check system with optical signal and buzzer on:
  - \* High temperature gearbox
  - \* Low oil pressure engine
  - \* High temperature engine
  - \* Low airpressure circuit 1
  - \* Low airpressure circuit 2
  - \* Low fuel level
  - \* Low voltage