



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 dm³

Bore: 102 mms

Stroke: 130 mms

Compression ratio: 18,0:1

Output: 170 kW (231 Hp) at 2200 rpm

Torque: 810 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 dm³

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+4 (F+R)

3.702F 6 (F)

2.304F+2.044R 9+10 (F+R)

1.501F 14 (F)

0.963F+0.854R 21+24 (F+R)

0.627 33 (F)

(Tyre size 11R22.5, axle ratio 16,21)

In combination with ZF transmission:

Axletech transference with permanent frontwheel drive 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

Axletech

Frontaxle with planetary wheelends

Capacity 16.000 kgs (20 km/h)*

Reduction ratio 16.33:1

* Actual axle load capacity depending on tyre load rating.

Optional:

- Axle ratio 12.6:1

REAR AXLE

Axletech 5523SFD

Capacity 35.000 kgs (20 km/h)*

Reduction ratio 16.21:1

Differential lock : Lockable type

* Actual axle load capacity depending on tyre load rating.

Optional:

- Axle ratio 12.63:1

SUSPENSION

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

Rear: Directly bolted to chassisframe.

Optional:

- Air-suspension with rubber stops

RIMS AND TYRES

Tyres: 11R22,5 (6 pieces)

Rims: 10 stud discwheels 22,5 x 8,25

STEERING SYSTEM

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

Emergency steering property.

Steering wheel diameter 350 mm

Turning circle over front bumper (mm)

	Driver side	Non Driver side
W.B.2900	12.460	11.880
W.B.3100	12.980	12.440
W.B.3200	13.240	12.720
W.B.3300	13.500	13.000
W.B.3500	14.020	13.560

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 lifting frame construction from stable 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 5th wheel height.

Specification may change without prior notice

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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 dm³. 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 Duplex wedge-brake system. Rearaxle with high capacity single jaw dry disk brake system. Automatic slack adjusters front and rear. Tankreservoirs: 3 x 40 dm³. Total 120 dm³.

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 dm³ 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 mounted rear on 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
- 2x Differentiallock
- 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
 - * 2x Differential lock
 - * 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