



ENGINE

Mercedes, OM904LA Euromot IIIA / Tier 3

Four-cylinder four-stroke water cooled diesel line engine with turbo charging and charge air cooling. High pressure direct fuel injection.

Displacement 4,25 dm³
 Bore x Stroke 102 x 130 mm
 Compression ratio 18,0:1
 Oil sump 16 Ltr.

Capacity:

129 kW (173 hp) at 2.200 rpm.

Max. torque:

675 Nm (498 lb-ft) at 1.200-1.600 rpm.

Airfilter:

Large dry 2 stage airfilter with exchangeable filter element.

GEARBOX

ZF Powershift transmission, Type 3WG161

Automatic shift transmission with 3 gears forward and 3 gears reverse. Equipped with converter and separate oil cooler for transmission oil.

Theoretical speed at 2500 rpm.

Gear 1 F+R 9,0 km/h
 Gear 2 F+R 22,0 km/h
 Gear 3 F+R 50,0 km/h

tyre size 295/60R22.5
 Axle ratio 7,96:1

FRONT AXLE

Volvo, Type FA 8.2

Heavy-duty Volvo FA 8.2 steering axle

Capacity: 11.000 kg at 20 km/h
 15.000 kg at 0 km/h

FRONT AXLE MOUNTING

Front axle with ½ Parabolic leafsprings, air suspension and telescopic shockabsorbers. Axle mounting with integrated roll reduction.

REAR AXLE

Axletech, Type 5521 SFW

Heavy-duty drive axle with manual differential lock and hub reduction. Ratio 7,96 :1

Capacity: 20.000 kg at 20 km/h
 25.000 kg at 0 km/h

REAR AXLE MOUNTING

Directly bolted to the chassisframe

Optional:

- Air suspension with dump valve in combination with telescopic shockabsorbers and stabiliser. This allows the vehicle to lower approximately 50 mm

TYRES AND RIMS

Front – Single tyres

295/60R22.5, XZA 16PR (2x)

Rear – Dual tyres

295/60R22.5, XDA 16 PR (4x)

Steel rims

10-hole-size 22.5x9.00 front / rear interchangeable

Optional:

- Wheelnut protection rings on front axle.

STEERING SYSTEM

Full hydrostatic orbitrol steering with emergency feature and double action steering cylinder.

Steering wheel diameter 350 mm
 Turning radius Left / Right .. 9.550 mm

HYDRAULIC SYSTEM

Hydraulic pump for steering and swap body lifting directly mounted to the engine, with priority valve for steering system. Oil tank mounted to the right side of chassisframe.

Oil tank capacity 120 Ltr.
 Pump capacity: 45 dm³-1000 rpm.
 Working pressure: 180 bar
 Lifting speed frame: 10 seconds (at 2.200 rpm)

Hydraulic valve

The hydraulic valve is electrical / pneumatically operated from the inside of the cabin. This type of operation is also used for lifting the optional 2" 5th wheel.

BRAKE SYSTEM

Vehicle is equipped with 2 line air brakes on all wheels, spring / parking brakes on rear wheels installed. Air supply by engine mounted compressor and air dryer with integrated pressure regulator.

Brake cylinder

Front axle 2 diaphragm cylinders
 Rear axle 2 diaphragm cylinders
 2 x spring brake cylinders
 Air tank capacity 3x60 dm³
 Brake pressure 7,5-8.1 bar

FUEL TANK

400 Ltr. steel tank integrated with hydraulic tank and mounted to the right side of the chassisframe.

Terberg Benschop B.V.

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

Tel. (0031)-0348-459211 – Fax (0031)-0348-451934 – e-mail: info@terbergbenschop.nl – Internet: http://www.terbergbenschop.nl

CHASSISFRAME

Welded rigid chassisframe consisting of steel box profiles.

Front construction with strong drawbar connection integrated in the front bumper. Rear side is equipped with bumper construction mounted on the swap body lifting frame.

Easy and practical entrance of the cabin thanks to cabin integrated set of steps on the right side.

Optional:

- Modifications for TUV 40 km/h approval on public road.
- 2" 5th wheel construction with hydraulic height adjusting controlled from within the cabin. Lifting frame capacity 15.000 kg The 5th wheel construction is mounted on the chassisframe. This isolation from the swap body lifting frame assures very stable vehicle / trailer operation.
- In case the vehicle is equipped with a 5th wheel a safe and operator friendly entrance of the swap body lifting frame is realised this to make the connection activities of the trailer easy and secure.

SWAP BODY LIFTING FRAME

Rigid swap body lifting frame consisting of steel box profiles, rear side of the frame with sloping sides. Swap body lifting frame:

Width 2310 mm
Capacity 25.000 kg

The swap body is restricted at the front of the frame by two adjustable positioning profiles.

Four double action lift rams with hard chrome rods and stabile vertical profiles, all four equipped with pilot operated check valves. Electronically operated oil flow divider assures parallel lifting. Frame is additional fixated by two stabiliser construction mounted at the front and the rear of the swap body lifting frame.

Optional:

- Wearingplates mounted on the swap body lifting frame.
- A drawbar trailer coupling of 40 and / or 50 mm mounted at the rear side of the swap body lifting frame.

EXHAUST

Muffler with horizontal tube, exit behind front axle at the right side.

ELECTRICAL SYSTEM

Starter..... 4 kW - 24 V
Alternator..... 80 A / 28 V
Battery 2 x 12 V / 180 Ah

- Headlights with high / low beam
- 2 rear lights with combined brake and direction indicator lights
- 2 direction indicator lights front
- 5 worklights for lighting during reversing under swap body
- 1 interior light in cabin
- 1 rotating warning light on cabin
- Instrument lights
- Wiring with code numbers easy readable / visible / accessible. Wiring, fuses and relays mounted in central electrical box.

CABIN

1 person cabin left hand drive position, fixed driver position facing forward.

Cabin outer dimensions:

Width 1400 mm
Length 1593 mm
Height 1821 mm

Cabin construction of strong steel profiles to resist latest Rops/Fops regulations. Cab mounted on 2 anti-vibration mounts in the front and equipped with air suspension on the rear. Inboard door at right-hand side mounted for easy entrance. Horizontal sliding window at drivers side. Large windows with excellent visibility. All windowpanes tinted hardened safety glass except front window, which is layered. Standard mounted parallel wiper on front pane. Noise insulation exceeds international standards. Cabin can be tilted with hydraulic handpump to approximately 65°. Driver seat with airsuspension and fully adjustable, mounted on console with generous storage space. Demister/heater with 3 speed blower and recirculation system. Steering column with 1 brake pedal and 1 accelerator pedal mounted at right side of column.

Dashboards:

- Start-/Stop-ignition
- Differential lock

- Wiper rear (optional)
- Wiper Washer (optional)
- Worklight
- Hazard light
- Interior light
- Revolution counter
- Running hours counter

Right side of driver seat:

- Operation of swap body lifting frame
- Operation 5th wheel (optional)
- (un)Locking 5th wheel (optional)
- (un)Locking swap body (optional)
- Switch for worklights

Indicator lights

- Alternator
- Direction indicators
- Main beam
- Differential lock
- Parking brake
- Airfilter

Indicator lights / optical and acoustic signal on:

- High temperature transmission oil
- Low oil pressure engine
- High Coolant temperature
- Low air pressure circuit 1
- Low air pressure circuit 2
- Low fuel level
- Low voltage

Steering console:

- Gear selector
- Combined Switch for:
 - Direction indicators
 - Wiper front
 - Dipped and main beam
 - Horn

Optional:

- Air-conditioning
- Co-driver foldaway seat

PAINTING

Chassisframe: grey RAL 7022
Cabin: 1 colour conform RAL code number.

DOCUMENTATION

1 set consisting of:
Drivers-, Sparepart- and Workshopmanual.

FUTHER OPTIONS ON DEMAND