ENGINE
Mercedes OM470/MTU6R1100 (Tier 4f / Stage 4)
Six-cylinder four-stroke direct-injection diesel engine with turbo charging and air to air intercooler.
Engine equipped with 4 valves/cylinder, latest generation amplified pressure common rail fuel system and an extremely powerful 340 kW engine brake to enable a safe/fast downhill operation and to ensure longest possible brake lining lifetime.
Engine equipped with airless Mercedes (AdBlue) system including SCR-catalyst.
Displacement: 10.6 dm³
Bore: 125 mm
Stroke: 145 mm
Compression ratio: 17.6:1
Fuel sulphur level (max): 50 ppm
Output: 300 kW (408 hp) at 1540-1800 rpm
Torque: 2000 Nm at 900 - 1400 rpm
Acc. to ECE R120
Optional:
Cummins QSM11-335 (Tier3/Stage 3A)
Six-cylinder four-stroke direct-injection diesel engine with turbo charging and air to air intercooler.
Engine equipped with 4 valves/cylinder, latest generation full electronic fuel metering and 260 kW engine brake.
Displacement: 10.8 dm³
Bore: 125 mm
Stroke: 147 mm
Compression ratio: 16.3:1
Output: 272 kW (370 hp) at 1800 rpm
250 kW (340 hp) at 2100 rpm
Torque: 1674 Nm at 1000 - 1400 rpm
Acc. to ISO 3046

GEARBOX
ZF, type, 6WG310
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.
Integrated pneumatically lockable longitudinal differential with 1/3 front: 2/3 rear torque split.

FRONT AXLE
Kessler LT81
Heavy duty front axle with planetary wheel ends and 19.8:1 reduction ratio
Capacity: 25,000 kg at 10 km/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: 48,000 kg at 10 km/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: 325/95R24 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 ZXM 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: ±7500 mm (Wheelbase 3400 mm)

5TH WHEEL
2” Cardanic heavy duty 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 stable and strong steel plate.
Optional:
- 3,5” Cardanic 5th wheel
  *Actual lifting capacity depending on tyre load ratings and 5th wheel height.
HYDRAULIC SYSTEM
High capacity load sensing hydraulic pump for steering and lifting of the 5th wheel plate, directly mounted to engine, with priority valve for the steering system. Heavy duty PTO on the rear of the transmission to drive optional hydraulic pump(s).
Hydraulic oil tank protected mounted on the right-hand side.
Volume: ±410dm³.
Hydraulic valve electrically/pneumatically operated from inside the cab to lift/lower/hold the 5th wheel.
Working pressure 230 Bar.
2 heavy-duty hydraulic 2 stage single acting telescopic lift rams.

COOLING SYSTEM
Heavy Duty plate and bar type radiator mounted on rubber silent blocks with separate air-cooled transmission-oil cooler and air to air intercooler all side by side.
Coolers are equipped with very open fins which ensure minimum clogging. Fan shroud equipped with window for easy cooler core cleaning.

EXHAUST
T4f: Mercedes SCR Catalyst/silencer with horizontal outlet.
Catalyst/silencer protected mounted on the left-hand side.
T3: Normal box type silencer protected mounted on the left-hand side.

FREEZE PROTECTION SYSTEM
- Bypass valve
- Engine coolant heater

ELECTRICAL SYSTEM
24 Volt negative earth.
Alternator : 28 V/100 A
Batteries : 2 x 12 Volt / 185 Ah
Output starter : 7 kW
Fuses and relays mounted in central electrical box.
Can-Bus system allowing multiple options/flexibility and easy fault tracing.
All wiring with code numbers and easy readable/visible mounted in easily accessible electrical box.
7 pin SAE socket at rear of cab for trailer connection (DIN ISO 1185).

LIGHTING
- H4 head lights with dipped and main beam and direction indicators.
- LED rear lights on rear of chassis, with direction indicators and brake lights.
- 5th wheel floodlight behind cabin.
- Mounting for rotating beacon light.
- Interior light in cabin with integrated spotlight.

CABIN
- 1 person – left-hand drive position.
- With 180º swivelling seat.

Dimensions inside:
- width : 1520 mm
- length : 1670 mm
- height : 1660 mm
Cabin construction of overdimensioned strong steel profiles to comply to latest Rops/Fops regulations.
Cab comfortable mounted on 3 anti-vibration mounts.
Entrance to cab by rear sliding door with rubber mounted window pane.
Vertical electric sliding window at driver’s side with “Comfort” control.
Cabin can be tilted with hydraulic hand pump to 73º

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

Side dashboard:
- Parking brake lever.
- Heater controls.
- Switches for:
  - Ignition
  - Wiper rear
  - Differential lock transfer case
  - Working light(s)
  - Hazard lights
  - Lighting
  - Differential lock rear axle

Steering console:
- Steering wheel fully adjustable in height and angle.
- Combi switch for:
  - Direction indicators
  - Wiper front 2 speed
  - High/low beam +head lights flasher
  - Horn
- Gearbox selector
- Lift frame up/down control lever
- Switches for:
  - 5th wheel unlocking
  - Unlocking swivelling seat
  - Electrically operated driver side window with “Comfort” control.
- Terberg Driver Information Module connected to the CAN-Bus system incorporating main indicator lights, gauges and vehicle information.