

Mercedes Benz OM906LA

I-6 with exhaust brake and Engine Valve Brake Configuration

(EVB)

Turbocharged and intercooled Aspiration Single pass radiator & charge air cooler

Cooling system 170 kW (228 hp) @ 2 200 rpm SAE J1349 Gross power

Net Power 165 kW (221hp) @ 2 200 rpm

810 Nm (597 lbft) @ 1 050 -1 850 rpm **Gross torque** 

SAE J1349

Net torque 780 Nm (575 lbft) @ 1 050 -1 850 rpm

6,37 litres (389 cu.in) Displacement Fuel tank capacity 200 /(58 US gal)

Layout Gear layout Clutch type Torque converter layout

Vehicle speeds

ZF 6HP592C with integral retarder Engine mounted box with rear output Constant meshing planetary gears Hydraulically operated multidisc Hydrodynamic, with lock-up in all gears 2nd 3rd 4th 5th 6th

10 16 28 40 56 65 10 km/h 40 10 17 25 35 6 mph 6

**TRANSFER CASE** 

VGR 13 200

**Output differential** 

Interaxle 50/50 proportional differential, pneumatically lockable whilst stationary or on the move

Bell 14T

Differential type Spiral bevel type with Limited Slip Outboard heavy duty planetary Final drive type

Housing type Steel fabricated

**BRAKING SYSTEM** 

Dual circuit, full hydraulic actuation caliper brakes SERVICE BRAKE

on all wheels Maximum brake force 164 kN (36,900 lbf)

Spring applied, air released driveline mounted PARK & EMERGENCY

Maximum brake force 396 kN (89,000 lbf)

**AUXILLIARY BRAKE** Automatic exhaust brake and Engine Valve Brake

Maximum retardation 442 kW (593 hp)

(laden)

Flow

WHEELS

20.5R25

Tyre: Size Radial Earthmover Type

Maximum ground pressure

134 kPa (19 psi)

**SUSPENSION SYSTEM** 

Semi-independent leading arm type linkages Front: Type

supported by nitrogen/oil struts

Pivoting walking beams equalize the load on Rear: Type

each axle with laminated suspension blocks. Each axle is coupled to the chassis by a system of four rubber-bushed links for ideal vertical

movement

HYDRAULIC SYSTEM Full load sensing system. A ground-driven, load sensing emergency steering pump is integrated

into the main system 184 /min (48.6 US gal/min)

25 MPa (3,915 psi) Pressure Filter 10 micron

UMATIC SYSTEM Air drier with heater and integral unloader valve, serving park brake and auxiliary functions

System pressure 850 kPa (123 psi)

**ELECTRICAL SYSTEM** 

Voltage

Battery Type Two maintenance free permanently sealed **Battery capacity** 2 x 105 Ah (optional 2 extra batteries)

Alternator rating

STEERING SYSTEM

Hydrostatically actuated by two double acting

cylinders, with ground-driven emergency steering pump.

+- 45 degrees Anale

Lock to lock turns 4,1

Laden:

8,5 m<sup>3</sup> (11.1 cu.yd) 11 m<sup>3</sup> (14.4 cu.yd) Capacity: Struck Heaped, SAE 2:1 SAE 1:1 13,6 m<sup>3</sup> (17,8 cu.yd) Rated payload 18 000 kg (35,683 lbs)

Raise time 12 s Power down time 6 s

70 degrees Tipping angle

**OPERATI G WEIGHTS** 

8 310 kg (18,320 lbs) Empty: Front 3 485 kg ( 7,683 lbs) 3 242 kg ( 7,147 lbs) Middle Rear

Total 15 037 kg (33,151 lbs)

8 855 kg (19,522 lbs) Front Middle 12 218 kg (26,936 lbs) 11 969 kg (26,387 lbs) Rear Total 33 042 kg (72,845 lbs)

Cab

ROPS/FOPS certification Tilt cab for service access

Tinted safety glass

 Rearview mirrors-regular and wide angle · Wiper/washer withintermittent control

Tilt and telescoping steering wheel

· Adjustable, air suspension seat with

retractable seat belt

· Fold-away trainer seat with retractable seat

· HVAC climate control system with filtered and ducted air

· Wheel spanner set

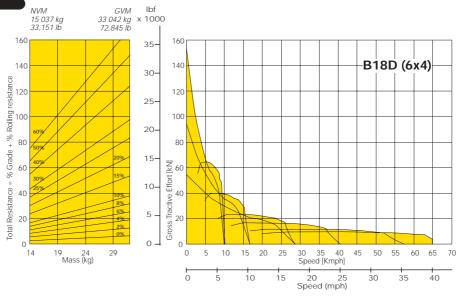
Retarder Integral transmission retarder

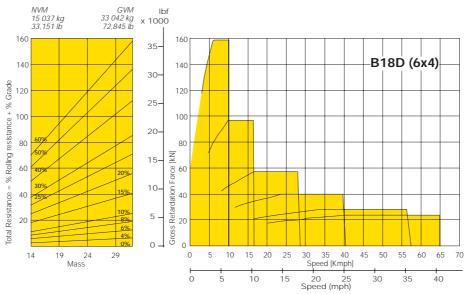
Ground driven emergency steering Other

Flashing beacon Work lights Artic reverse light Electrical horn

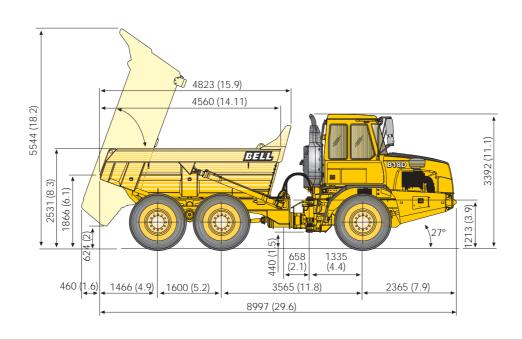
## B18D<sub>6x4</sub> ARTICULATED DUMP TRUCK

#### GRADEABILITY



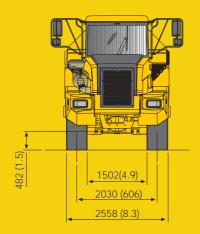


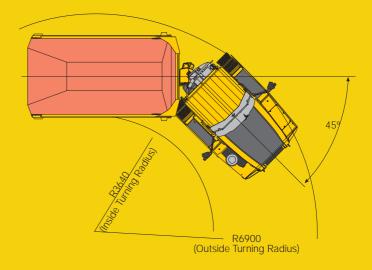
### LINE DRAWING





#### LINE DRAWING





# What makes the **B18D** a great performer...

- Supreme driver comfort from a nitrogen over oil strut semiindependent suspension system
- High performance engine with increased power and torque
- Improved cab setting new standards in comfort, sound levels and simplicity in operation
- Quicker tip cycles
- Tighter turning circle
- Fewer scheduled service requirements
- Electronic component protection
- Improved service access
- Powerful hydraulic transmission retarder drastically cuts brake
   use extending pad life up to a factor of five

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