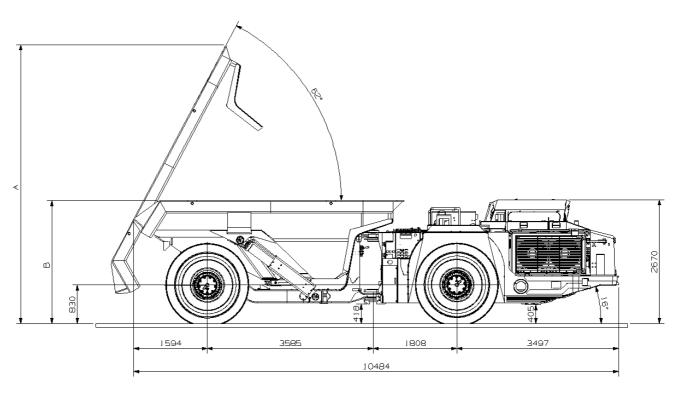
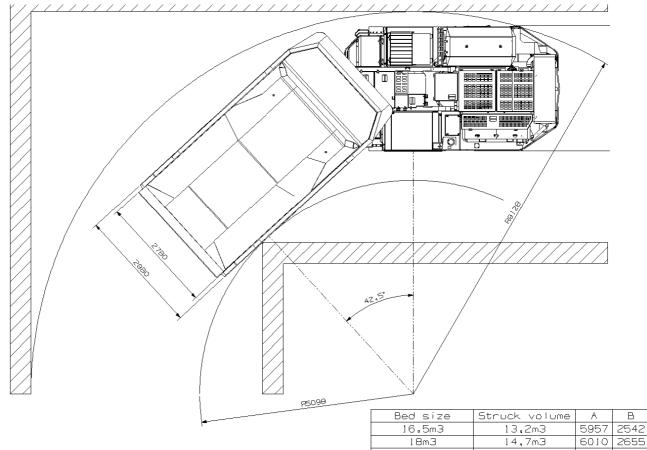


# Sandvik TH540





Sandvik Mining and Construction reserves the right to change this specification without further notice



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16,6m3

18,5m3

20m3 22m3 В

6081 2806

6151 2955



# Sandvik TH540

Main dimensions

Total length 10 484 mm (413") Total width 3 005 mm (118") Height 2 686 mm (106") Max. height of the box 18 m<sup>3</sup> 2 656 mm (105")

Weights

Operating weight 34 700 kg (76 400 lb) Total loaded weight 74 700 kg (164 600 lb)

Axle weights without load

front axle 25 900 kg (57 000 lb) rear axle 8 800 kg (19 400 lb)

Axle weights with load

37 200 kg (82 000 lb) front axle rear axle 37 500 kg (82 700 lb)

Unit weight is dependent on the selected options

**Capacities** 

Payload capacity 40 000 kg (88 200 lb) Box std. (heaped, SAE 18.0 m<sup>3</sup> (24yd<sup>3</sup>)

J1363)

**Dump box movements** 

Discharging time 14 sec Dumping angle 62°

Driving speeds forward and reverse

1st gear 6.4 km/h (4.0 mph) 2nd gear 8.6 km/h (5.3 mph) 3rd gear 11.6 km/h (7.2 mph) 4th gear 15.3 km/h (9.5 mph) 5th gear 20.2 km/h (12.6 mph) 6th gear 26.6 km/h (16.5 mph) 7th gear 36.0 km/h (22.4 mph)

Reversing with 1st and 3rd gear

Rear and front frame Welded steel construction Central hinge Box constructed, adjustable

lower bearing

Standard engine

Diesel engine Volvo TAD1364VE (MSHA approved)

Output 375 kW (503hp) / 1900 r/min 2546 Nm 1878 lbf ft) / 1350 rpm Torque

Number of cylinders in line 6 Displacement 12 78 I Cooling system Water cooled

Combustion principle Direct injected, turbo + inter

cooler, 4- stroke

Air filtering Donaldson

Exhaust system Heat shield for exhaust manifold

& Turbo,

Double wall exhaust pipe, Catalytic purifier and muffle

Fuel tank capacity 700 I (185 gal.)

Engine shut down with low hydraulic or brake oil level

Standard converter

Dana CL9672 With lock-up, offset 1:1.

Gearbox

Dana 8821 Power shift transmission with electric

remote shifting system.

Seven gears forwards and two reverse

Automatic gear shifting.

Standard axles

Front axle Dana, 21D 3847, oscillation ± 13°.

Rear axle Dana, 21D 3847, fixed

Standard tyres

Air pressure:

Size and type 26.5R25 E4 \*\*

> Brand and type subject to availability 550 kPa (5.5 bar) (80 psi)

> rear 700 kPa (7.0 bar) (101 psi)

Other type of tyres available to user's choice. In certain applications the productive capabilities of the truck may exceed the TKPH value given by tyre manufacturer.

Sandvik Mining and Construction Oy recommends that the user consult their tyre supplier to evaluate conditions

and to find the best solution for application.

Cabin

ROPS/FOPS certified safety cabin with air conditioning Height 2670 mm (105")

Steering hydraulics

Full hydraulic, center articulated, power steering with two double acting cylinders, turning angle ± 42.5°. Steering is equipped with load sensing Danfoss system and a steering wheel.

Turning radius, inner 5090 mm (200") 9130 mm (359") Turning radius, outer

Main components in steering system:

Steering pump Steering cylinders Steering valves Pressure setting for

steering hydraulic circuit 19,0 MPa (190 bar) port relief valves 24.0 MPa (240 bar)

**Box hydraulics** 

Full hydraulic pilot controlled system, equipped with variable displacement piston pump. Oil flow to box hydraulic system from the steering hydraulics. Olin flow from the brake circuit pump is divided to the brake system and oil cooler motor.

Pressure setting for:

3,5 MPa (35 bar) pilot circuit dump box hydraulics 26.0 MPa (260 bar)

port relief valves:

28.0 MPa (280 bar) piston end piston rod end 12.5 MPa (125 bar)

Main components: Cylinders for dump box Valves for dump box Pump for dump box hydraulics

Pump for brake and cooling circuit

**Fittings** 

ORFS

Hoses High temperature

Steel piping hydraulics Oil cooler for hydraulic oil

Steering and box hydraulic oil tank 225 liters (60 gal)

capacity

Electrical fill up pump for hydraulic





## Sandvik TH540

#### Standard brakes

Service brakes are spring applied, hydraulically released multidisc wet brakes (Posi-Stop) on all wheels, two separate circuits for the front and rear axle. Service brakes also function as an emergency and parking brake. Electrically driven pump for brake emergency/towing releasing.

Main components in the brake system:

Pressure accumulator Brake pedal valve Brake valve Charging valve

Brake hydraulic tank capacity 100 liters (26.4 gal)

Automatic brake activation (ABA)

#### Standard Lubrication system

Centralized automatic lubrication

### **Electrical equipment**

Alternator 2 pcs, 28 V 140A Bosch Batteries 2 pcs, 12 V 160 Ah

Starter 24 V

Driving lights 4 pcs in front (H3 65W)

4 pcs in rear (H3 65W)

Working light 1 pc (H3 65W)

Parking lights 4 pcs
Brake lights 2 pcs
Blinkers 4 pcs

Instrumentation 5.7 in LCD display

### Safety equipment

Signal horn for box up

Hand held fire extinguisher 12 kg

Engine shut down with low hydraulic or brake oil level

Reverse alarm (CEN) Lockable main switch External shutdown Neutral brake

#### **Others**

Decal language EU-languages

### Standard manuals

Instructions Manual

-Operator's Manual EU-languages -Maintenance Manual EU-languages anual English

In pdf format

Parts Manual English
Service and Repair Manual English

ToolMan CD, (2 pcs)
-Instructions Manual

-Operator's Manual

-Maintenance Manual

-Parts Manual

-Service and Repair Manual

#### Main options:

- \* Replaces standard equipment
- \* Engine Volvo TAD1364VE, 375 kW (503 hp)
   Euro Stage 3B / Tier 4i (for EU and Japan)
- \* Engine Detroit S60 DDEC IV, 354 kW (475hp) (MSHA approved)
- \* Dump box capacity 20,0m<sup>3</sup>(26 yd<sup>3</sup>) (heaped, SAE J1363), width 2760/2980mm.
- \* Dump box capacity 22,0m<sup>3</sup>(29 yd<sup>3</sup>) (heaped, SAE J1363), width 2760/2980mm.
- Emergency steering (CEN).
- Electrical retarder TELMA.
- Exhaust brake "Jake Brake"
- Gear limit TBA
- Fire suppression system ANSUL, two tank system with 8 nozzles (CEN) including auto engine shutdown
- Fire suppression system ANSUL, two tank system with 8 nozzles (CEN), CHECKFIRE, including auto engine shutdown
- Sandvik FS1000 fire suppression system, including auto engine shutdown
- Reverse camera
- Mirrors defrost
- Windows defrost
- Cabin heater (with air conditioning)
- · Cyclone for air conditioning
- · Cover grills for lights
- · Wiggins fuel fill system
- Wiggins fluid fill set (hydr., transmission and engine oil)
- Jump start (CAT)
- · Foldable safety rails
- Flashing beacon
- Accordance with CE-norms (CEN).
- Disassembly needed shaft dim: TBA.
- CatBase/LinkOne spare part manuals and additional Instructions, Workshop, Spare part manuals, ToolMan CD's are available.
- Control system tool kit

