Sandvik TH430L is a 30 metric tonne articulated low profile dump truck that will fit in a 4 x 2 m envelope.

Sandvik TH430L is an ideal choice for:
- Ramp or level production haulage in medium sized low profile mines.
- Mine development projects in medium and large low profile mines.

**CAPACITIES**
- Payload capacity: 30 000 kg
- Standard dump box: 15 m³

**SPEEDS FORWARD & REVERSE (LEVEL/LOADED) WITH VOLVO TAD1342VE ENGINE**

<table>
<thead>
<tr>
<th>Gear</th>
<th>Speed (km/h)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st</td>
<td>6.6</td>
</tr>
<tr>
<td>2nd</td>
<td>11.7</td>
</tr>
<tr>
<td>3rd</td>
<td>20.4</td>
</tr>
<tr>
<td>4th</td>
<td>36.0</td>
</tr>
</tbody>
</table>

**DUMP BOX MOTION TIMES & MOVEMENTS**
- Discharging time: 19 sec
- Dumping angle: 61°

**OPERATING WEIGHTS ***
- Total operating weight: 28 270 kg
- Front axle: 16 588 kg
- Rear axle: 11 492 kg

**LOADED WEIGHTS ***
- Total loaded weight: 58 080 kg
- Front axle: 26 425 kg
- Rear axle: 31 655 kg

* Unit weight is dependent on the selected options.
**POWER TRAIN**

**ENGINE**
- Diesel engine: Volvo TAD1342VE (Tier 2)
- Output: 310 kw (416 hp) @ 2100 rpm
- Torque: 2005 Nm @ 1260 rpm
- Number of cylinders: In-line 6
- Displacement: 12.8 l
- Cooling system: Liquid cooled
- Combustion principle: 4-stroke, direct injection, turbo, after cooler
- Air filtration: Dry Type
- Electric system: 24 V
- Emissions: Tier 2, Euro Stage II
- Ventilation rate (Ultra low sulphur diesel): CANMET 31,400 CFM, MSHA 18,500 CFM Ventilation Rate
- Particulate index (Ultra low sulphur diesel): MSHA Particulate Ventilation Index 10,500 CFM
- Exhaust system: Catalytic converter with muffler
- Average fuel consumption at 50% load: 37 l/h
- Fuel tank refill capacity: 610 l

**OPERATIONAL CONDITIONS AND LIMITS**
- Environmental temperature: From -20°C to +50°C
- Standard operating altitude: With engine Volvo TAD1342VE-B from -1500 m to +4000 m at 25 °C without rated power derate

**REQUIREMENTS AND COMPLIANCE**
- Compliance with 2006/95/EC Low voltage directive
- Compliance with 2004/108/EC Electromagnetic compatibility directive
- Design based on MDG 15. Guideline for mobile and transportable equipment for use in mines. (Equipment for Australia, achieved with relevant options)
- Electrical system based on IEC 60204-1. Safety of machinery – Electrical equipment of machines – Part 1: General requirements

**CANOPY**
- ROPS certification according to EN ISO 3471
- FOPS certification according to EN ISO 3449
- No high pressure hoses in the operator's compartment
- Inclinometers to indicate operating angle
- Emergency exit
- Floor washable with water to reduce dust
- Three-point contact access system with replaceable and colour coded handles and steps
- Remote circuit breaker switch

**CONTROL SYSTEM, DASHBOARD AND DISPLAYS**
- Sandvik Intelligent Control system
- Critical warnings and alarms displayed as text and with light
- 5.7” LCD display with adjustable contrast and brightness
- Instrument panel with illuminated switches
- My Sandvik Digital Services Knowledge Box™ on-board hardware

**FRAME**
- Rear and front frame: High strength structure with optimized material thicknesses. Reduced own weight for higher overall hauling capacity and long structural lifetime. Welded steel construction.
- Central hinge with adjustable lower bearing
- Tanks are part of the frame structure
- Automatic central lubrication

**HYDRAULICS**

**MAIN COMPONENTS**
- Filling pump for hydraulic oil
- Door interlock for brakes and box hydraulics
- Oil cooler for hydraulic and transmission oil: Capability up to 90 °C ambient temperature
- Fittings: ORFS
- Hydraulic oil tank capacity: 265 l
- Sight glass for oil level: 2 pcs
STEERING HYDRAULICS

- Fully hydraulic, center articulad, power steering with two double acting cylinders. Closed-center system with a load sensing piston type pump and pilot operated orbital wheel steering.
- Steering main valve: Pilot operated
- Steering hydraulic cylinders: 100 mm, 2 pcs
- Steering pump: Variable displacement piston pump

DUMP BOX HYDRAULICS

- Fully hydraulic system, equipped with variable displacement piston pump. Oil flows to box hydraulic system from the steering hydraulics. Oil flow from the brake circuit pump is divided to the brake system and oil cooler motor.
- Hydraulic pump: Variable displacement piston pump
- Control valve: Solenoid operated
- Main valve: Solenoid operated
- Cylinders: 185 mm, 2 pcs

BRAKES

- Service brakes are spring applied; hydraulically operated multi disc wet brakes on all wheels. Two independent circuits: one for the front and one for the rear axle. Service brakes also function as an emergency and parking brake. Brake system performance complies with requirements of EN ISO 3450, AS2958.1 and SABS 1589.
- Neutral brake
- Automatic brake activation system, ABA
- Electrically driven emergency brake release pump
- Brake pedal valve: foot operated pedal, fully modulated
- Brake oil tank capacity: 100l

INCLUDED SAFETY FEATURES

FIRE SAFETY
- Portable fire extinguisher, 2 x 6 kg
- Hot side - cold side design
- Isolation of combustibles and ignition sources
- Heat insulation on exhaust manifold, turbo, and isolated exhaust pipe

ENERGY ISOLATION
- Lockable main switch, ground level access
- Emergency stop push buttons according to EN ISO 13850
- Pressure release in the radiator cap
- Automatic discharge for pressure accumulators (brake system and pilot circuit)
- Frame articulation locking device
- Mechanical dump box locking device
- Wheel chocks and brackets

ELECTRICAL EQUIPMENT

MAIN COMPONENTS
- Alternator: 24 V, 150 A
- Batteries: 2 x 12V, 950 CCA
- Starter: 24 V, 7 kW
- Driving lights: Halogen lights:
  - 4 pcs in the front of the unit
  - 2 pcs in the rear of the unit
- Working lights: Halogen lights:
  - 2 pcs in the front frame, towards the rear
- Parking, brake and indicator (blinkers) lights: LED lights:
  - 2 pcs in the front of the unit
  - 2 pcs in the rear of the unit
- Cameras: Reverse and front camera
- Control system: 5.7" LCD color display, 3 modules, inbuilt system diagnostics
- Reverse alarm

DOCUMENTATION

STANDARD MANUALS
- Operator’s Manual: English
- Maintenance Manual: English
- Parts Manual: English
- Service and Repair Manual: English
- ToolMan: 2 x USB stick in PDF format, includes all manuals
- Decals: English

OPTIONS
- Cover grills for lamps
- Spare rim 22.00-25/3.0 (for tyres 26.5R25)
- Control system toolkit
- Driving direction lights (red / green)
- Fire suppression system ANSUL, 2 tanks, 8 nozzles, including auto shutdown
- Proximity Detection System Interface
- Integrated weighing system
## Grade Performance

### Volvo TAD1342VE, Tier 2

#### Loaded

<table>
<thead>
<tr>
<th>Percent grade</th>
<th>0.0</th>
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<th>4.0</th>
<th>6.0</th>
<th>8.0</th>
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<th>12.5</th>
<th>14.3</th>
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<td>1:10</td>
<td>1:8</td>
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<tr>
<td>1st gear (km/h)</td>
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<td>11.7</td>
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