Sandvik TH315 is a narrow 15 metric tonne truck with a 7.5 m³ box, fitting in a 3 x 3 meter heading. The truck is built to offer the flexible mobility necessary in narrow-vein mining conditions. This mining truck carries high payloads for its weight and is maneuverable and quick on inclines.

The truck is equipped with an reliable and powerful Volvo Euro Stage III A / Tier 3 diesel engine, and it features an excellent power to weight ratio.

Sideways seating in Sandvik TH315 operator’s compartment offers comfort in applications which require both forward and reverse operation. The equipment has joystick steering and dump box control. Visibility from the operator’s compartment has been improved e.g. with a perforated box front edge and optional reverse camera. Color-coded three-point of contact access system with fold-out ladders and handles offers easy access to the maintenance areas on top of the truck. Efficient and long-life LED lights improve visibility.

Sandvik Intelligent Control System with 7” LCD color display and inbuilt diagnostics helps to monitor equipment health, access log files and act timely on alarms.

Sandvik TH315 is well proven, designed to be reliable and easy to maintain, and especially well suited for:

- Ramp and drift development in small mines
- Small tunneling projects
- Two pass loading with Sandvik LH307 narrow vein loader

**CAPACITIES**

<table>
<thead>
<tr>
<th>Capacity</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Payload capacity</td>
<td>15 000 kg</td>
</tr>
<tr>
<td>Standard dump box</td>
<td>7.5 m³</td>
</tr>
</tbody>
</table>

**SPEEDS FORWARD & REVERSE (LEVEL/LOADED)**

<table>
<thead>
<tr>
<th>Gear</th>
<th>Speed (km/h)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st</td>
<td>6.0</td>
</tr>
<tr>
<td>2nd</td>
<td>12.2</td>
</tr>
<tr>
<td>3rd</td>
<td>20.9</td>
</tr>
<tr>
<td>4th</td>
<td>35.9</td>
</tr>
</tbody>
</table>

**DUMP BOX MOTION TIMES & MOVEMENTS**

<table>
<thead>
<tr>
<th>Movement</th>
<th>Time (sec)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discharging</td>
<td>10</td>
</tr>
<tr>
<td>Dumping angle</td>
<td>60</td>
</tr>
</tbody>
</table>

**OPERATING WEIGHTS ***

<table>
<thead>
<tr>
<th>Weight</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total operating</td>
<td>18 400 kg</td>
</tr>
<tr>
<td>Front axle</td>
<td>13 400 kg</td>
</tr>
<tr>
<td>Rear axle</td>
<td>5 000 kg</td>
</tr>
</tbody>
</table>

**LOADED WEIGHTS ***

<table>
<thead>
<tr>
<th>Weight</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total loaded</td>
<td>33 400 kg</td>
</tr>
<tr>
<td>Front axle</td>
<td>15 300 kg</td>
</tr>
<tr>
<td>Rear axle</td>
<td>18 100 kg</td>
</tr>
</tbody>
</table>

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

**ENGINE**
- **Diesel engine**: Volvo TAD851VE (Tier 3)
- **Output**: 185 kw (252 hp) @ 2200 rpm
- **Torque**: 1150 Nm @ 1500 rpm
- **Number of cylinders**: In-line 6
- **Displacement**: 7.7 l
- **Cooling system**: Liquid cooled
- **Combustion principle**: 4-stroke, direct injection, turbo, after cooler
- **Air filtration**: Dry type
- **Electric system**: 24 V
- **Emissions**: Tier 3, Euro Stage III A
- **Ventilation rate**
  - CANMET 12,100 CFM 5.71 m³/s
  - MSHA 9,000 CFM
- **Particulate index**
  - MSHA Particulate Index 9000 CFM
- **Exhaust system**: Catalytic converter with muffler
- **Average fuel consumption**
  - at 50% load: 27 l/h
- **Fuel tank refill capacity**: 240 l

**CONVERTER**
- Converter with lock-up integrated into transmission

**OPERATIONAL CONDITIONS AND LIMITS**
- Environmental temperature: From -20°C to +50°C
- Standard operating altitude: With engine Volvo TAD851VE from -1500 m to +3000 m at 25°C without rated power derate

**REQUIREMENTS AND COMPLIANCE**
- Compliance with 2006/95/EC Low voltage directive
- Electrical system based on IEC 60204-1. Safety of machinery – Electrical equipment of machines – Part 1: General requirements

**OPERATOR’S SEAT**
- Low frequency suspension
- Height adjustment
- Adjustment according to the operator’s weight
- Fore-aft isolation
- Padded and adjustable arm rests
- Adjustable lumbar support
- Selectable damping
- Two-point seat belt

**CONTROL SYSTEM, DASHBOARD AND DISPLAYS**
- Sandvik Intelligent Control system
  - Displayed as text and with light (1-module system)
- Critical warnings and alarms
  - Electrical gauges, 7” Display
- Instrument Panel
  - Illuminated switches

**AXLES**
- **Front axle**: Kessler D81 series spring applied hydraulic operated brakes, equipped with standard differential, oscillation
- **Rear axle**: Kessler D81 series spring applied hydraulic operated brakes, equipped with standard differential

**TIRES**
- Tire size (Tires are application approved. Brand and type subject to availability): 16.0 R 25 E4

**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**: Adjustable lower bearing
- **Tanks**: Tanks are part of the frame structure
- **Automatic central lubrication**: Standard

**OPERATOR’S COMPARTMENT**
- **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

**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**: Adjustable lower bearing
- **Tanks**: Tanks are part of the frame structure
- **Automatic central lubrication**: Standard
**HYDRAULICS**

**MAIN COMPONENTS**
- Door interlock for brakes and box hydraulics: **Standard**
- Oil cooler for hydraulic and transmission oil: Capability up to 50°C ambient temperature
- Fittings: ORFS
- Hydraulic oil tank capacity: 182 l
- Sight glass for oil level: 2 pcs

**STEERING HYDRAULICS**
- Full hydraulic power steering, center articulated with double acting steering cylinder.
- Steering main valve: Pilot operated
- Steering hydraulic cylinders: 125 mm, 1 pc
- Steering pump: Gear pump

**DUMP BOX HYDRAULICS**
- Full hydraulic open-center system with one gear pump. Oil flows to the dump box hydraulic system from the pump when the steering system is not in use. Joystick dump box control.
- Hydraulic pump: Gear pump
- Control valve: Solenoid operated
- Main valve: Solenoid operated
- Cylinders: 185 mm, 1 pc

**ELECTRICAL EQUIPMENT**

**MAIN COMPONENTS**
- Alternator: 28 V, 110 A
- Batteries: 2 x 12V, 925 CCA
- Starter: 24 V, 5.5 kW
- Driving lights: LED lights:
  - 4 pcs in front
  - 2 pcs in rear
- Working lights: LED lights:
  - 1 pc in front
  - 1 pc in rear
- Reverse Camera: Option
- Control system: Color display, inbuilt system diagnostics
- Reverse alarm (CE): Standard
- Flashing beacon: Option

**INCLUDED SAFETY FEATURES**

**FIRE SAFETY**
- Portable fire extinguisher: 6 kg (CEN)
- Hot side - cold side design: Standard
- Isolation of combustibles and ignition sources: Standard
- Heat insulation on exhaust manifold, turbo, and isolated exhaust pipe: Standard

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

**DOCUMENTATION**

**STANDARD MANUALS**
- Operator's Manual: English and other EU languages
- Maintenance Manual: English and other EU languages
- Parts Manual: English
- Toolman: English
- Service and Repair Manual: English
- ToolMan: 2 x USB stick in pdf format, includes all the manuals
- Decals: English and other EU languages

**OPTIONS**

**SAFETY OPTIONS**
- Fire suppression system ANSUL, 1 tank, 6 nozzles (CEN), including auto shutdown

**OTHER OPTIONS**
- Toolman CD
- Spare rim 11.25-25/2.0 (for tyres 16.00R25)
### DIMENSIONS

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Dump box alternatives (m³)</td>
<td>7.5 m³</td>
</tr>
<tr>
<td>Material broken density (kg/m³) (FF 0.9)</td>
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<tr>
<td>L1 (mm)</td>
<td>7710</td>
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<tr>
<td>L2 (mm)</td>
<td>2768</td>
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<tr>
<td>L3 (mm)</td>
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<tr>
<td>A2</td>
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<td>A3</td>
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<td>R1 (mm)</td>
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<tr>
<td>R2 (mm)</td>
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<tr>
<td>T (mm)</td>
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### GRADE PERFORMANCE

**Volvo TAD851VE (Tier 3)**

Calculated with 3% rolling resistance

With lock-up

#### EMPTY

<table>
<thead>
<tr>
<th>Percent grade</th>
<th>0.0</th>
<th>10.0</th>
<th>14.3</th>
<th>20.0</th>
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<tbody>
<tr>
<td>Ratio</td>
<td>1:10</td>
<td>1:7</td>
<td>1:5</td>
<td></td>
</tr>
<tr>
<td>1st gear (km/h)</td>
<td>6.0</td>
<td>5.9</td>
<td>5.8</td>
<td>5.7</td>
</tr>
<tr>
<td>2nd gear (km/h)</td>
<td>12.4</td>
<td>11.8</td>
<td>11.5</td>
<td>10.8</td>
</tr>
<tr>
<td>3rd gear (km/h)</td>
<td>21.4</td>
<td>18.9</td>
<td>15.3</td>
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<tr>
<td>4th gear (km/h)</td>
<td>37.2</td>
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</table>

#### LOADED

<table>
<thead>
<tr>
<th>Percent grade</th>
<th>0.0</th>
<th>10.0</th>
<th>14.3</th>
<th>20.0</th>
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<td>1:5</td>
<td></td>
</tr>
<tr>
<td>1st gear (km/h)</td>
<td>6.0</td>
<td>5.7</td>
<td>5.6</td>
<td>5.5</td>
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<tr>
<td>2nd gear (km/h)</td>
<td>12.2</td>
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<tr>
<td>3rd gear (km/h)</td>
<td>20.9</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>4th gear (km/h)</td>
<td>35.9</td>
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