- Engine output:
  A35D:
  SAE J1995, Gross 289 kW (393 hp)
  SAE J1349, Net 285 kW (389 hp)
  A40D:
  SAE J1995, Gross 313 kW (426 hp)
  SAE J1349, Net 309 kW (420 hp)
- Body volume, heaped:
  A35D: 35.6 m³
  A40D: 40.5 m³
- Load capacity:
  A35D: 32.5 t
  A40D: 37.0 t
- Volvo cab, designed for high operator visibility, ergonomics and comfort.
- Reduced maintenance time with no daily or weekly grease points.
- Electronic Operator’s Communication System
- Volvo high performance — low emission electronically controlled, direct injected, turbocharged, intercooled diesel engine.
- Volvo Engine Brake, VEB
- Fully automatic planetary transmission, electronically controlled.
- Hydraulic retarder integral in transmission.
- Dropbox with high/low function and longitudinal differential lock
- 100% lock-up differentials. One longitudinal and three transverse differential locks.
- Front axle with three-point suspension.
- Volvo terrain bogie, individually oscillating axles and high ground clearance.
- Light material body, for material density 0.9 t/m³
- Volvo Load & Dump Brake.
The A35D - A40D Light Material in detail

Service
The computerized information system monitors all fluid levels, minimizing daily and weekly service times.

Time to next service and the status of vital vehicle systems is shown to the operator on a display in the instrument panel.

Service accessibility: Fold-down front grill with access ladder to remote filter bank, located in front of engine. Large, 90° opening hood for total engine access.

Remote drain hoses and swing-out radiator for easy cleaning.

Fill capacities

<table>
<thead>
<tr>
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<th>A35D</th>
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<tbody>
<tr>
<td>Crankcase</td>
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<tr>
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<td>Transmission total</td>
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<tr>
<td>Dropbox</td>
<td>10,5 l</td>
<td>10,5 l</td>
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<td>Per axle</td>
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<tr>
<td>Hydraulic tank</td>
<td>250 l</td>
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Engine
Volvo inline 6-cylinder, direct injected electronically controlled, turbocharged, intercooled 4-stroke low-emission diesel engine with wet replaceable cylinder liners.

Fan: Hydrostatically driven, thermostatically controlled variable speed radiator fan consuming power only when needed.

Engine brake: VEB (Volvo Engine Brake)

Make, model: Volvo D12C ABE2*
Make, model: Volvo D12C ADE2**
Max power at 30 r/min (1 800 r/min)
SAE 1195 Gross: 289 kW (420 hp)
Flywheel power at 30 r/min (1 800 r/min)
SAE 1195 Gross, DIN 6271***: 309 kW (420 hp)
Torque converter: Single-stage with free-wheeling stator and automatic lock-up on all gears.
Transmission: Electronically controlled, fully automatic planetary transmission with six forward gears and two reverse gears, with a built-in variable hydraulic retarder.
Dropbox: Volvo design with high and low function, power take-off and differential with 100% lock-up function. Separate dropdown oil cooling.
A40D: Automatic upshift low range to high range in 6th gear.

Axles: Volvo design with fully floating axle shafts and planetary type hub reductions.

Suspension
Volvo’s unique maintenance-free 3-point suspension system. The axles are suspended at three points, which results in independent movement needed in rough terrain.

Front axle: The front suspension consists of one rubber spring, a stabilizer and three shock absorbers on each side.

Brake system
A35D


A40D

Fully hydraulic brakes with enclosed, forced oil-cooled multiple discs on all axles. Two circuits. Separate brake cooling for each axle. Meets ISO 3450 and SAE J1473 at total machine weight.

Axles: Volvo design with fully floating axle shafts and planetary type hub reductions.

Engines

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<td>SAE 1195 Gross</td>
<td>289 kW (420 hp)</td>
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<td>Flywheel power at 30 r/min (1 800 r/min)</td>
<td>SAE 1195 Gross, DIN 6271***</td>
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<td>Transmission retarder</td>
<td>Retarder</td>
<td>Engine brake</td>
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Speed:

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<tr>
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<td>3</td>
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<td>4</td>
<td>21 km/h</td>
<td>24 km/h</td>
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<td>5</td>
<td>27 km/h</td>
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<td>6</td>
<td>35 km/h</td>
<td>41 km/h</td>
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<tr>
<td>Automatic upshift to 6th gear</td>
<td>6th gear, High range</td>
<td>55 km/h</td>
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<tr>
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<td>4</td>
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<td>6</td>
<td>43 km/h</td>
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<td>56 km/h</td>
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<tr>
<td>Retarder</td>
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<td>3</td>
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</tr>
<tr>
<td>3</td>
<td>14 km/h</td>
<td>14 km/h</td>
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</table>

Electrical system

All cables, sockets and pins are identified.

Cables are enclosed in plastic conduits and secured to main frame. Halogen lights. Prewired for options. Connectors meet IP67 standard for water-proofing as necessary.

Voltage | 24 V |
| Battery capacity | 2x170 Ah |
| Alternator | 1,54 kW (55 A) |
| Starter motor | 7,2 kW (10 hp) |

Brake system
A35D


A40D

Fully hydraulic brakes with enclosed, forced oil-cooled multiple discs on all axles. Two circuits. Separate brake cooling for each axle. Meets ISO 3450 and SAE J1473 at total machine weight.

Service brakes: Wet multiple disc brakes on all wheels.

Circuit division: One circuit for front axle and one for bogie axles.

Parking brake: Spring-applied disc brake on the propeller shaft, designed to hold a loaded machine on a grade up to 18%.

When the parking brake is applied, the longitudinal differential is locked.

Retarder: Hydraulic, infinitely variable, integrated in transmission. Total retarding capability including transmission retarder and exhaust retarder, see graph.

Volvo Engine Brake: Standard. Operator selectable application together with service brakes or when accelerator pedal is released. Always engaged together with retarder. Total retarding capability including transmission retarder and engine brake, VEB, see graph.

Steering system
Hydromechanical self-compensating articulated steering for safe and accurate high-speed hauling. Fast acting, low effort steering with 3,4 turns lock-to-lock for slow speed maneuverability.

Cylinders: Two double-acting steering cylinders.

Secondary steering: Meets ISO 5010 at total machine weight.

Steering angle: ±45°
## Hydraulic system

Load-sensing variable displacement piston pumps consume power only when needed.

**Pumps:** Seven engine-driven, variable displacement, load-sensing piston pumps driven by the flywheel PTO. One ground-dependent piston pump for secondary steering mounted on the dropbox.

**Filtration:** Through two fibreglass filters with magnetic cores.

**Pump capacity per pump:**
- **Engine-dependent**: 143 l/min
- **Ground-dependent**: 202 l/min at shaft speed 47.5 r/s (2850 r/min)
- **Working pressure**: 25 MPa

## Cab


**Standard:** ROPS/FOPS tested and approved. (ISO 3471, SAE J1040) / (ISO 3449, SAE J231) standards.

**Heater and defroster:** Filtered fresh air, four-speed fan and pressurized cab to maintain a clean operating environment. Multi-level air outlets and separate defroster vents for all windows.

**Operator’s seat:** Adjustable air suspension operator’s seat with flameproof upholstery. Retractable seat belt.

**Trainer seat:** Standard, with seat belt and back rest.

**Sound level in cab:** ISO 6396 .. 72 dB (A) at max speed......................... 78 dB (A)

## Body

**Light material body:** Bolted body extensions extends the standard body for light material transport, material density 0.9 t/m³.

**Load and dump brake:** With the engine running, the service brakes on bogie axles are applied and transmission is shifted to neutral.

**Body material:** Hardened and tempered steel body, flat plate design made of high-strength steel.

**Tipping angle:** 70°

**Tipping time:** 12 s

**Lowering time:** 10 s

## Weights

<table>
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<tr>
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<tr>
<td>Operating weight</td>
<td>Unloaded</td>
<td>Std. Body</td>
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<tr>
<td>Front</td>
<td>26,5R25</td>
<td>15 320 kg</td>
</tr>
<tr>
<td></td>
<td>29,5R29**</td>
<td>16 300 kg</td>
</tr>
<tr>
<td>Total</td>
<td>28 300 kg</td>
<td>12 980 kg</td>
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<tr>
<td>Total weight</td>
<td>28 300 kg</td>
<td>31 270 kg</td>
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<tr>
<td>Payload</td>
<td>32 500 kg</td>
<td>37 000 kg</td>
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<tr>
<td></td>
<td>60 800 kg</td>
<td>68 270 kg</td>
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</table>

*) A35D with tires 775/65R29, add 200 kg/ axle  **) A40D with tires 875/65R29, add 300 kg/ axle

## Ground Pressure

At 15% sinkage of unloaded radius and specified weights. Body volume according to SAE 2:1

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<tr>
<th></th>
<th>A35D</th>
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<tr>
<td>Tires</td>
<td>26,5R25</td>
<td>775/65R29</td>
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<tr>
<td>Operating weight</td>
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<td>Loaded</td>
</tr>
<tr>
<td>Front</td>
<td>128 kPa</td>
<td>149 kPa</td>
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<tr>
<td></td>
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<tr>
<td>Rear</td>
<td>54 kPa</td>
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<tr>
<td></td>
<td>100 kPa</td>
<td>150 kPa</td>
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</table>

## Load Capacity

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<th>A40D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tires</td>
<td>26,5R25</td>
<td>775/65R29</td>
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<tr>
<td>Operating weight</td>
<td>Unloaded</td>
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<td>128 kPa</td>
</tr>
<tr>
<td></td>
<td>16 300 kg</td>
<td>110 kPa</td>
</tr>
<tr>
<td>Rear</td>
<td>12 980 kg</td>
<td>54 kPa</td>
</tr>
<tr>
<td></td>
<td>14 970 kg</td>
<td>46 kPa</td>
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<td>Total</td>
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<td>53 kPa</td>
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<td>Total weight</td>
<td>31 270 kg</td>
<td>47 kPa</td>
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<tr>
<td>Payload</td>
<td>32 500 kg</td>
<td>149 kPa</td>
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<td>Total weight</td>
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<tr>
<td>Total</td>
<td>60 800 kg</td>
<td>135 kPa</td>
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</tbody>
</table>

*) A35D with tires 775/65R29, add 200 kg/ axle  **) A40D with tires 875/65R29, add 300 kg/ axle
RETARDATION PERFORMANCE (Hydraulic retarder and VEB)

1. Braking effort in metric ton. 2. Speed in km/h. 3. Machine weight in metric ton. 4. Grade in % + rolling resistance in %.

Instructions
Diagonal lines represent total resistance (grade % ± rolling resistance %). Charts based on 0% rolling resistance, standard tires and gearing, unless otherwise stated.

A. Find the diagonal line with the appropriate total resistance on the right-hand edge of the chart.
B. Follow the diagonal line downward until it intersects the actual machine weight line, NMW or GMW.
C. Draw a new line horizontally to the left from the point of intersection until the new line intersects the rimpull or retardation curve.
D. Read down for vehicle speed.
Instructions
Diagonal lines represent total resistance (grade % ± rolling resistance %). Charts based on 0% rolling resistance, standard tires and gearing, unless otherwise stated.

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D. Read down for vehicle speed.

Continuous
Low range Max. retarding performance
High range Max. retarding performance
Continuous

RIMPULL
1. Rimpull in metric ton.
2. Speed in km/h.
4. Grade in % + rolling resistance in %.

A40D / D12
Rimpull

RETARDATION PERFORMANCE (Hydraulic retarder and VEB)
1. Braking effort in metric ton.
2. Speed in km/h.
4. Grade in % – rolling resistance in %.

A40D
Low range Max. retarding performance
High range Max. retarding performance
Continuous
### Specifications A35D - A40D Light Material

<table>
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<tr>
<th>Pos</th>
<th>Metric (mm)</th>
<th>Imperial (Feet)</th>
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A35D: Unloaded machine with 26.5R25
A40D: Unloaded machine with 29.5R29
*) A35D with optional 775/65R29 tires
**) A40D with optional 875/65R29 tires
STANDARD EQUIPMENT

Safety
- ROPS/ FOPS cab
- Service platform for ease of service
- Anti-slip material on fenders and hood
- Hazard lights
- Horn
- Protective grille for rear window
- Rear-view mirrors
- Retractable 3-inch safety belt
- Secondary steering
- Steering joint locking assembly
- Dump body lock
- Handrails on fenders
- Windshield washers with interval function

Comfort
- Tilt/telescopic steering wheel
- Cab heater with filtered fresh air and defroster
- Overhead console for radio and storage
- Sun visor
- Can holder / storage tray
- Ashtray
- Space for lunch cooler
- Storage box
- Heated and air suspended fully adjustable operator’s seat
- Instructor seat with backrest and retractable seat belt

Engine
- Direct injected, electronically controlled
- Volvo Engine Brake, VEB
- Turbocharged
- Intercooler, air-to-air cooler
- Remote oil filters, for ease of access
- Remote oil drain plug and hose
- Preheater for easier cold starts
- Coolant filter

Electrical system
- Alternator, 55 A
- Battery disconnect switch
- Electrical outlets, 24V in cab
- Lights:
  - Headlights
  - Parking lights
  - Direction indicators
  - Rear lights
  - Back-up lights
  - Brake lights
  - Cab lighting
  - Instrument lighting
  - Pilot lights for all switches

Operator information interface
- Gauges:
  - Speedometer
  - Tachometer
  - Brake pressure
  - Fuel
  - Transmission oil temperature
- Warning lights grouped and easy to read
- Central warning (3 levels) for all vital functions
- Central positioned information display:
  - Automatic pre-start checks
  - Operation information, easy-to-find menu
  - Troubleshooting diagnostics
  - Hour meter
  - Clock
  - Machine settings

Drivetrain
- Automatic transmission
- Torque converter with automatic lock-up
- Variable hydraulic transmission retarder
- Dropout hydraulic transmission retarder
- 6x4 or 6x6 operator selectable drive modes
- 100% longitudinal differential lock
- 100% differential locks in all axles

Brakes
- A35D
  - Two circuit, fully hydraulic disc brakes on all axles.
- A40D
  - Two circuit, fully hydraulic brakes with enclosed, forced oil-cooled multiple discs on all axles.
  - Separate brake cooling for each axle.

Volvo Engine Brake (VEB) activation in brake pedal
- Parking brake on prop shaft

Body
- Light material body, material density 0,9 t/m³
- Body prepared for exhaust heating
- Load and Dump brake

Tires
- A35D: 26.5R25
- A40D: 29.5R25

Other
- Air drier
- Tool box

OPTIONAL EQUIPMENT

Safety
- Fire-extinguisher and first aid kit

Service and maintenance
- Tool kit with tire inflation unit
- Electrical/hood opening

Engine
- Extra air cleaner, heavy-duty
- Extra air cleaner, oil bath type
- External emergency stop
- Delayed engine stop
- Engine coolant pre-heater (120V or 240V)
- Engine and cab heater, diesel **
- Fast fuel filling system **

Electrical
- Work lights, roof mounted
- Work lights, rear-facing, fender-mounted
- Rotating beacon, collapsible mount
- Rotating beacon at rear end **
- Back-up alarm
- Rear vision system
- Anti-theft system (prevents engine start)
- Headlights for left-hand traffic
- Alternator, heavy-duty 80 A
- Battery charger **
- Jump start connection, NATO **
- Back up light, extra **
- Cab heater, electrical **

Cab
- Seat cover **
- Instructor seat with seat belt
- Electrically heated rear-view mirrors
- Air conditioning
- Radio installation kit
- Radio
- Cable kit for cab heater (120V or 240V)
- Window tint film

Brakes
- A35D: Fully hydraulic, forced oil-cooled wet disc brakes

External
- Rear mudflaps
- Additional front bumper (rubber)

Body
- Body exhaust heating kit

Tires
- A35D: 775/65R29
- A40D: 875/65R29

External
- A40D: Mudguard wideners (for 875/65R29 tires)
- A35D: Mudguard wideners (for 775/65R29 tires)
- Rear mudflaps

Other
- Synthetic hydraulic oil (biologically degradable)
- Arctic oil kit
- Dumping angle limitation (hydraulic) **

(* * Special Optional Equipment)
Under our policy of continual product improvement, we reserve the right to change specifications and design without prior notice. The illustrations do not necessarily show the standard version of the machine.