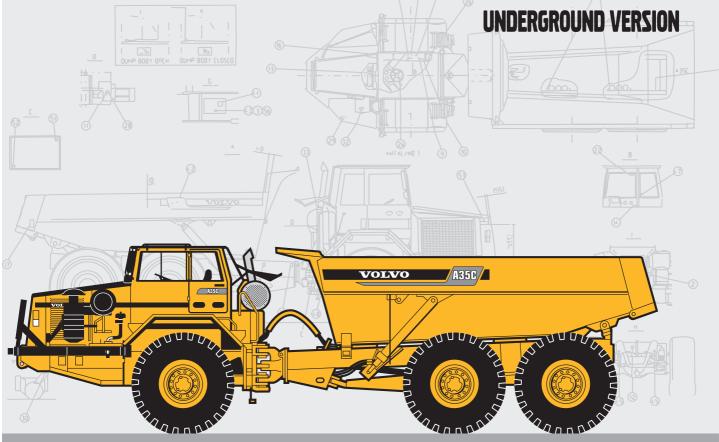
# **VOLVO ARTICULATED HAULER**





- Engine output SAE J1349: Net 262 kW (351 hp) Gross 267 kW (358 hp)
- Body volume: 19 m<sup>3</sup> (25 yd<sup>3</sup>)
- Load capacity: 32 t (35 sh tn)
- Volvo low emission directinjected, turbocharged, intercooled high performance diesel engine.
- Fully automatic powershift transmission, electronically controlled.
- Hydraulic retarder as standard.
- Drop box with longitudinal differential lock and high and low gear ranges.

- **100% lock-up** longitudinal and transverse differential locks.
- Front axle with three-point suspension and effective shock absorption.
- Volvo terrain bogie, individually oscillating axles and high ground clearance.
- Load and dump brake
- Low interior noise level
- · Adjustable steering wheel



### LOAD CAPACITY (According to SAE 2:1)

Load capacity	32 000 kg
Body, struck	
heaped	19 m <sup>3</sup>



### WEIGHTS

Operating weight includes all fluids and operator.

Operating weight, kg:

Unloade	d	Loaded
Front	13250	16450
Rear	12450	41250
Total	25700	57700



### SERVICE CAPACITIES

Crankcase	<b>Change</b> 31	Total
Cooling system	63 I	90 I
Transmission		40 I
Axle, approx	40	1011
Hydraulic system		194
Fuel tank		360 I



### ENGINE

Volvo 6-cylinder, inline, direct-injected, turbocharged, intercooled 4-cycle low emission diesel.

Fan: Hydrostatic driven, thermostatically controlled radiator fan consuming power only when needed.

Make/ Model	Volvo TD 122 KME
Max power at	35 r/s (2100 r/min)
SAE J1349 Gross	267 kW (358 hp)
Max torque at	18,3 r/s (1100 r/min)
SAE J1349 Gross	1595 Nm (1176 lbf ft)
Displacement total	12 l (732 in <sup>3</sup> )
Compression ratio	16:1



### **ELECTRICAL SYSTEM**

24 V Voltage Battery capacity..... 2x170 Ah



### **BRAKE SYSTEM**

Fully hydraulic disc brakes on all axles. Two circuits. Designed to comply with ISO 3450 and SAE J1473 at gross machine weight.

Parking brake: Spring-applied, air-released disc brake on the propeller shaft.

Load and dump brake: With the engine running, the service brake on the bogie axles is applied toghether with the parking brake.

Retarder: Hydraulic, integrated in transmission as standard. Variable effect when applied by retarder pedal or fully applied via the service brake pedal.



### DRIVETRAIN

Transmission: Volvo PT 1761. Electronically controlled, fully automatic planetary transmission with six gears forward and two in reverse. Automatic lock-up in all gears.

Drop box: Volvo FL 762. 2-speed design, power take-off, 100% longitudinal differential lock and oil cooler.

Axles: Volvo AH 63. 100% transverse diff-locks with fully floating axle shafts with heavy-duty planetary hub reductions. 6-wheel drive engageable during driving.

#### Max speed :

Forward, Low/ High gear. . . . 33,6 / 54,4 km/h Reverse, Low/ High gear ... 8,5 /13,8 km/h



# SUSPENSION

Volvo suspension system. Totally maintenance-free.

Front axle: Rubber springs with bottoming absorption. 2+2 shock absorbers. Stabilizer. The front axle is suspended at three points, allowing oscillation in rough terrain.

Bogie: Volvo's unique rough terrain bogie, which permits individual oscillation between the axles.



### STEERING SYSTEM

Hydromechanical articulated steering with mechanical feedback. 3.4 turns lock-to-lock.

Cylinders: Two double-acting steering cylinders.

Supplementary steering: Standard. Complies with ISO 5010 standard at total machine weight.

Steering angle: ± 45°



ft)

### HYDRAULIC SYSTEM

4 variable piston pumps on flywheel power take-off. Oil filtration trough two paper filters with magnetic core. Working pressure: 21 MPa.



### HAUL BODY

Material: Hardox 400, hardened and tempered steel with high impact strength.

Hoist cylinders: Two 3-stage cylinders, of which one stage is double-acting. Tipping time loaded 15 s. 73° tipping anle.

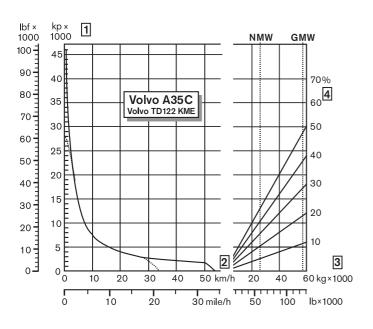


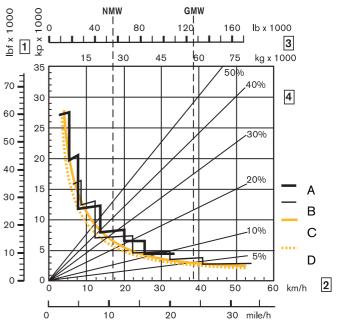
CAB

Volvo cab, tested and approved according to ROPS /FOPS. Mounted on rubber cushions. Adjustable steering wheel. 2 emergency exits.

Operator's seat: Ergonomically designed and adjustable operator's seat with flameproof upholstery. Retractable seat belt. Trainer seat: Standard, with seat belt and back rest. Sound level: 76 dB (A) acc. ISO 6394 at max. speed.

### **RIMPULL AND RETARDATION GRAPHS**





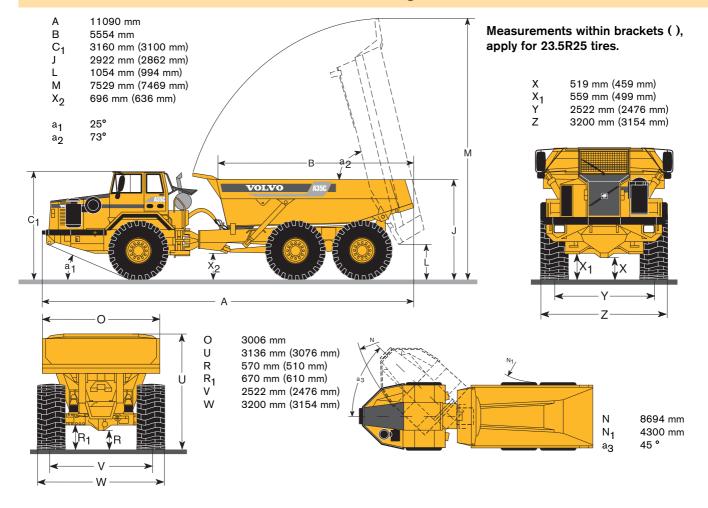
#### RIMPULL

- 1 Rimpull in kp (lbf)
- 2 Speed in km/h (mile/h)
- 3 Machine weight in kg (lb)
- 4 Grade in % + rolling resistance in %.

#### RETARDATION PERFORMANCE (Exhaust brake + retarder)

- 1 Braking effort in kp (lbf)
- 2 Speed in km/h (mile/h)
- 3 Machine weight in kg (lb)
- 4 Grade in % rolling resistance in %
- A: Low gear
- B: High gear
- C: Continuous incl. exhaust brake
- D: Continuous

### DIMENSIONS Volvo A35C 6x6 Underground Unloaded with 26.5R25 tires



### STANDARD EQUIPMENT

#### Safety

ROPS/FOPS cab Anti-slip material on fenders and hood Hazard flashers Horn Protective grille for rear window Rear-view mirrors

Secondary steering

Steering joint locking assembly

#### Cab

Adjustable steering wheel Ashtray Cab heater with filtered fresh air and defroster Cigarette lighter Cup holder Ergonomically designed and adjustable operator's seat with retractable seat belt Extra seat for trainer with back rest and seat belt Speedometer Sun visor Tinted glass Windshield wipers with interval Windshield washers

#### Engine

- Low-emission engine Intercooler Oil drainage hose Oil-bath air cleaner Preheating
- Turbocharger

Electric system

Alternator

Battery disconnect switch Electrical outlet on dash board Lights:

- Headlights, main/dipped
- Parking lights
- Direction indicators
- Rear lights
- Back-up lights
- Brake lights
- Cab lighting
- Instrument lighting
- Control panel lighting
- Gauges for:
- Air pressure
- Engine temperature
- Engine revs
- Fuel
- HoursTransmission oil temperature
- Pilot lamps for:
- Direction indicators
- Bogie axles diff-lock
- Front axle diff-lock
- Longitudinal diff-lock
- Lights
- Main beam
- Preheating
- High-low gear

- Warning lamps for:
- Air cleaner, engine
- Battery charging
- Body up
- Brake pressure
- Brake fluid level
- Coolant level
- Engine oil pressure
- Engine temperatureEngine-dependent steering pump
- Ground-dependent steering pump
- Parking brake
- Transmission temperature
- Central warning:
- Battery charging
- Brake pressure
- Brake oil level
- Body up
- Engine oil pressure
- Engine overspeed
- Steering function
- Transmission/ dropbox malfunction

### Drivetrain

- Torque converter with automatic lock-up Automatic power transmission Hydraulic, variable retarder Dropbox with high/low gear 100% Longitudinal diff-lock 100% Differential lock front axle 100% Diff.-lock first bogie axle
- 100% Diff.-lock second bogie axle

#### Brakes

Fully hydraulic disc brakes Two circuits Brake shields Parking brake on all wheels Retarder activation in brake pedal Load and dump brake

#### Body

Low profile standard body with exhaust ducts

**Tires** 26.5R25

## **OPTIONAL EQUIPMENT**

#### Service and maintenance

Tool kit with tyre inflation unit Tool box Central lubrication

Engine

Coolant filter External engine shut-down Exhaust brake

#### Electrical

External 24V outlet Headlights for left hand traffic Head light protection Rotating beacon Work lights, roof-mounted Work lights, fender-mounted

### Cab

Airsuspended, electrically heated operator's seat Air conditioning Contronic display Electrically heated rear-view mirrors Kit for radio installation Radio

#### Protection and safety

Collision guard, engine hood Collision guard in front (rubber) Collision guard, tractor sides Fire-extinguisher and first aid cushion in cab Preparation for fire suppression system Rear-view monitor Sight indicators Warning light, raised body

External Rear mudflaps

#### Body

Body heating, piping kit Overhung tailgate, wire operated Special underground body Wear plates standard body Wear plates for special underground body Underhung tailgate

**Tires** 23.5R25

#### Other

Synthetic hydraulic oil (biologically degradeable)

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.



Volvo Construction Equipment Group