

VOLVO ARTICULATED HAULER

A25C



- Engine output: S40, 21000, 167 kW/224 hp, Gross 190 kW/255 hp
- Body volume: 19.5 m³ (12.7 yd³)
- Load capacity: 22.0 / 25 t/46 t

- Volvo High-performance, low-emission, turbocharged, direct-injected, inter-cooled, 4-cylinder in-line engine with overhead valves and wet sump lubrication cylinder design.
- Electronically controlled, fully automatic power-shift transmission.
- Variable hydraulic retarder as standard.
- Driveline with longitudinal diff, lock and high and low gear ranges.

- 100% lock-up diff. locks. One longitudinal and three transverse diff. locks.
- Volvo rough terrain suspension, high ground clearance and individually oscillating bogies and front axle.
- Load and dump brake.
- Low starter noise level.
- Adjustable steering wheel.

VOLVO



ENGINE

Volvo 4-cylinder, in-line, turbocharged, direct-injected, inter-cooled, 4-cylinder in-line engine with overhead valves and wet sump lubrication cylinder design.

Meets EPA (EPA) and California off-road regulation 1999

Fuel: Hydraulic driven, electronically controlled retarder for (controlling power only when needed)

Model	Volvo
Model	T019 A25C
Max power at	60 r/min
S40 21000 Gross	167 kW/224 hp
Rated power at	60 r/min
S40 19000 Net	167 kW/224 hp
Max torque at	60 r/min
S40 21000 Gross	1900 Nm/1395 ft-lb
S40 19000 Net	1900 Nm/1395 ft-lb
Displacement total	6.75 l
Bore	104.8 mm/4.125 in
Stroke	130 mm/5.12 in
Compression ratio	17.5:1

* With fan at normal speed. With fan operating at full speed, the S40 power is 170 kW/228 hp, which corresponds to EPA 19000.

** With fan at normal speed. With fan operating at full speed, the maximum torque is 1910 Nm/1398 ft-lb, which corresponds to EPA 19000.



ELECTRICAL SYSTEM

Voltage	24 V
Battery capacity	5 x 95 Ah
Alternator	1.65 kW/2.2 hp
Starter motor	5 kW/6.7 hp



SERVICE CAPACITIES

Oil (base)	34 l
Oil (with oil change)	37 l
Oil (with oil change)	40 l
Transmission	18 l
Driveline	5 l
Front axle	27 l
Front bogie axle	28 l
Second bogie axle	27 l
Brake hydraulic	5 l
Hydraulic tank	150 l
Hydraulic system	150 l
Fuel tank	280 l



DRIVETRAIN

Torque converter: Single stage with free wheeling valve and automatic lock-up in all ranges.

Transmission: Electronically controlled, fully automatic planetary transmission with five gears forward and one in reverse.

Driveline: Volvo with 3-stage design, power takeoff and differential locking.

Diff: Volvo, 8-wheel drive. All axle have transverse diff locks with 100% locking capability and fully floating axle shafts with planetary type hub reductions.

Differential locker: One longitudinal and three transverse. All with 100% locking capability.

Torque converter	0.4:1
Transmission	Volvo PT 1000 (Gear) 5000
Driveline	Volvo PL 400
Diff	Volvo 400 S4

Speeds

Low gear forward		
1	0 km/h	0.7 mph
2	10 km/h	6.2 mph
3	15 km/h	9.3 mph
4	24 km/h	14.9 mph
5	34 km/h	21.1 mph
High gear forward		
1	0 km/h	0.6 mph
2	10 km/h	6.2 mph
3	24 km/h	14.9 mph
4	34 km/h	21.1 mph
5	52 km/h	32.3 mph
Low gear reverse		
1	7 km/h	4.3 mph
High gear reverse		
1	17 km/h	9.9 mph



SUSPENSION

Volvo suspension system. Totally maintenance free.

Front axle: Two rubber springs with bottoming absorption on each side. Shock absorbers: Two shock absorbers on each side. The front axle is suspended at three points, allowing vibration in rough terrain.

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

Volvo A25c Service Manual

A Loxley



Volvo A25c Service Manual:

Commerce Business Daily, 2001-03 **Volvo Service Manual** Volvo, Aktiebolaget, 1966 Volvo 240, 1986 *Volvo 850 Service and Repair Manual* John S. Mead, 2015 **Service Manual Repairs and Maintenance** Volvo, **Volvo 240 Series Service and Repair Manual** Robert Maddox, Steve Churchill, 1996 240 242 244 245 inc special limited editions Petrol 2 0 litre 1986cc 2 1 litre 2127cc 2 3 litre 2316cc OHC Does NOT cover OHV engines **Volvo 240 Series Owners Workshop Manual** Robert Phillip Maddox, Steve Churchill, 2015-08 This Volvo 240 series owner s manual illustrated with drawings and photographs provides comprehensive advice on routine maintenance fault diagnosis and wiring using common tools *Volvo 240 Series Service and Repair Manual* Steve J. Maddox, Steve Churchill, 2014 This Volvo 240 series owner s manual illustrated with drawings and photographs provides comprehensive advice on routine maintenance fault diagnosis and wiring using common tools Volvo Service Volvo, Aktiebolaget, 1970* **Volvo Service Manual**, 1984 Volvo Service Manual, Trucks, 1980 **Volvo 740 & 760** Matthew Minter, John S. Mead, 1996 Saloon Estate inc special limited editions Petrol 2 0 litre 1986cc 2 3 litre 2316cc 2 8 litre 2849cc **Volvo S40 and V50 Diesel Owner's Workshop Manual, 07-13** Chris Randall, 2016-10 **Service Manual**, 1975 Volvo 440, 460 and 480 Owners Workshop Manual A. K. Legg, 1993 **Volvo S40 and V50 Diesel (07-13) 07 to 62** Chris Randall, 2013-01-01 Part of the Haynes Service and Repair Manual Series this title covers Volvo S40 and V50 diesel cars made between 2007 and 2013 *Volvo Service*, 1985* Trucks Service Manual Aktiebolaget Volvo., 1969 Volvo Service Manual, **Volvo S70, V70 & C70 Service and Repair Manual** Jex RM, 2014

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