

VOLVO EXCAVATOR

EC160



- Engine Power: gross 80 kW (107 hp)
- Operating Weight 16,0 - 16,5 t
- Buckle 100 - 100 t
- Low emissions, turbocharged, diesel engine with direct injection
- Low-leaking hydraulic system
- Easy use
 - computerized control and steering system
 - ergonomic environment
 - low ground level
 - Steered or
- Long undercarriage for high stability
- High versatility for extra equipment / hydraulic
- High travel speed - 6.0 km/h

VOLVO



ENGINE

The engine is a low emissions, turbocharged, 4-stroke diesel engine with water-cooling and direct injection.

Model	TD 400-200
Cylinder	40.7 cm (16 inch)
Two-stroke cylinders	40.7 cm (16 inch)
Stroke (Two-stroke)	100 mm (3.9 inch)
No. of cylinders	4
Displacement (cm³)	4,300
Rated	100 kW
Stroke	100 mm



ELECTRICAL SYSTEM

High precision for monitoring of engine/hydraulic system. High capacity and well-protected electrical system. Personal, dual board based electric control with clearly arranged fuses and wires. Control prepared for connecting optional equipment. Rating according to standard.

Voltage	24 V
Battery	2 x 12 V
Battery capacity	120 Ah
A.C. Converter	220 V / 100 W
Alternator rating	1 kW / 10 A



SLEWING SYSTEM

The superstructure is steered by a direct steering, solid power motor with integrated slow-feeding device.

Travel speed	6.0 km/h
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CAB

Operator's cab with a supporting frame structure. Large glass for great all-round visibility. The upper front panel can be pushed up into the ceiling. Sliding side window in the cab door.

Noise and vibration: A for previous standard and efficient testing. Prepared for Air Conditioning.

Operator's seat: Independent suspension, operator's seat and individually adjustable armrest.

Estimated water intake: 14 (liters) approved according to (Directive 80/1109/EEC).



UNDERCARRIAGE

Heavy duty two designed body. Lifetime lubricated rollers and track shoes.

Track chain size	160
No. of track shoes	2 x 40
Track width	600 mm
W	600 (194) 600 mm
No. of bottom rollers	2 x 10
No. of guide rollers	2 x 10
W	2 x 10



DRIVE TRAIN

Each track is powered by a two-way swing-piston motor. The track tension is automatic. Hydraulic spring-applied and hydraulic release. Motors, bearings and planetary gears are fully enclosed in the crawler frame.

Max. trackline force (gross)	140 kN
Max. trackline force (net)	120 kN
Max. travel speed	6.0 km/h
Capacity	100 t
System pressure	20 MPa



WEIGHT AND GROUND PRESSURE

The following data refer to machines with 6.0 m boom step 6.7 m. System boom, 5.00 m slippers with spread 50, 500 kg loaded with 1,200 kg counterweight.

Machines with narrow undercarriage

Track gauge	Operating weight with boom	Operating weight with system boom	Ground pressure
600 mm	16,000 kg	16,500 kg	20 MPa
600 mm	16,000 kg	16,500 kg	20 MPa
600 mm	16,000 kg	16,500 kg	20 MPa

Machines with wide undercarriage

Track gauge	Operating weight with boom	Operating weight with system boom	Ground pressure
600 mm	16,000 kg	16,500 kg	20 MPa
600 mm	16,000 kg	16,500 kg	20 MPa
600 mm	16,000 kg	16,500 kg	20 MPa
600 mm	16,000 kg	16,500 kg	20 MPa



SERVICE REFILL CAPACITIES

Fuel tank	200 l
Hydraulic system, total	220 l
Water engine oil	5.1 l
Working system (incl. pump)	10 l

Volvo Ec160 Excavator Service Repair Manual

F Rizvi



Volvo Ec160 Excavator Service Repair Manual:

Volvo 740 & 760 Owner's Workshop Manual Haynes Publishing, Matthew Minter, John S. Mead, 2014 This guide provides all that the Volvo 740 or 760 owner needs to know to service and maintain their vehicle **Volvo 300 Series** Colin Brown, 1996 **Volvo S70, V70 & C70 Service and Repair Manual** Jex RM, 2014 **Volvo 400 Series Service and Repair Manual** A. K. Legg, 1999 Hatchback Saloon Coupe inc Turbo special limited editions Petrol 1 6 litre 1596cc 1 7 litre 1721cc 1 8 litre 1794cc 2 0 litre 1998cc Volvo 160 Series, 1968-75 R. M. Clarke, 1998-09 Includes Engine fuel cooling systems ignition clutch gearbox overdrive automatic transmission suspension hubs steering gear brakes electrics bodywork plus buyers guide Covers models 164 164E 164TE **Volvo 850 Service and Repair Manual** John S. Mead, 2015

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