

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-pressure hydraulic system
- Case cab
 - computerized control and steering system
 - ergonomic environment
 - low sound level
 - filtered air
- 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 4000
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)	4,000
Rated	100 kW
Stroke	100 mm



ELECTRICAL SYSTEM

High precision for monitoring of engine/hydraulic system. High capacity and well-protected electrical system. Personal, sound 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 source with integrated slow holding brake.

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 (European Machinery CE).



UNDERCARRIAGE

Heavy duty low 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 (190) mm
No. of bottom rollers	2 x 10
No. of guide rollers	2 x 1
W	2 x 1



DRIVE TRAIN

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

Max. track force (gross)	140 kN
Max. track 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
Cooling system (incl. pump)	30 l

Volvo Ec160 Excavator Service Repair Manual

JG Myers



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 **Volvo S70, C70 & V40 Service and Repair Manual** Robert Jex, 1999 **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 (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 S40 and V50 Diesel Owner's Workshop Manual, 07-13* Chris Randall, 2016-10 **Service Manual Repairs and Maintenance** Volvo, **Repair/Service Manuals, Excavator**, 1974 **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 400 Series** A. K. Legg, 2003 **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 S40 & V40 Service and Repair Manual** Mark Coombs, Spencer Drayton, 1999 **Volvo Service Manual Repair Instructions**, 1975 *Volvo 240 Series Service and Repair Manual* Robert Phillip Maddox, 1996 **Volvo 940 Service and Repair Manual** John S. Mead, 1996

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