



Volvo BM L70B



- **Engine output power:**
S40 210kW (284 hp) (ISO)
- **Operating weight:** 9,2 t (11,2 t)
(9,200 - 10,400 kg)
- **Buckets:** 1,8 - 3,2 m³
(2,3 - 4,2 cu yd)
- **Torque Parallel linkage**
- high breakout torque throughout the working range
- excellent parallel lift and control
- **Hydraulic transmission**
- good low rpm loading performance
- **Hydrostatic transmission with Volvo BM Automatic Power Shift**
- **Excellent wet slip resistance**
- excellent wet slip resistance
- **Safe Cab - pressurized cab with high comfort and safety**
- **Continuous monitoring system**
- **Load sensing hydraulic system**
- Working and steering hydraulics
- **Steering and easy-to-operate precision steering**
- **Pilot-operated working hydraulics**
- **Power take off for hydraulically powered attachments**

VOLVO BM



SERVICE

Continuous monitoring system gives information on regular service intervals time for trouble-shooting information on the condition of the machine.

Service accessibility: Large, easy-to-open engine access panels with gas struts. Flipped-out oil and coolant.

Full tank	100 l	26.4 US gal
Hydraulic tank	60 l	15.8 US gal



ENGINE

Engine delivers high torque even at low rpm. Quick response from low rpm even under full load. The machine can work at low engine speeds, which contributes to good fuel economy, less noise, less wear and longer life.

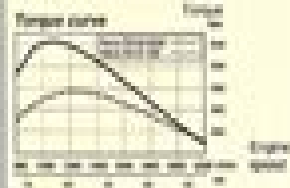
Engines: Volvo TD-61 500 or Volvo TD-62 420L.

4-cylinder, in-line, direct injected, turbocharged 4 stroke diesel engine with wet sump lubrication system.

Air cleaning: three-stage.

Engine	TD-61 500	TD-62 420L	4-cylinder
Rated output at	90.0 (1200)	80.0 (1100)	44 (590)
S40 210kW (284 hp) net	97 (1110)	87 (1110)	48 (650)
Max. torque at	30 (1300)	18.5 (1100)	15 (1300)
S40 210kW (284 hp) net	40 (1300)	30 (1300)	30 (1300)
Displacement	5.0 (240)	5.0 (240)	1 (240)

¹ Low emission high-performance engine



ELECTRICAL SYSTEM

Continuous monitoring system with complete information on the status of the machine's various systems. Electrical system with circuit board and protection by fuses. Prepared for retrofitting of optional equipment.

Central warning

Central warning lamp for the following functions: engine oil pressure, engine coolant temperature (both coolant), hydraulic oil pressure in transmission, transmission oil temperature, brake pressure, parking brake (button).

Voltage	24	V
Wattage	24/12	V
Battery capacity	24/100	Ah
Charging capacity at	575	A
Discharge capacity at	175	mA
Alternator rating	1000/10	W/A
Water pump rated	5.2	cm ³ /s



DRIVETRAIN

Clutch and mixing hydraulics well-matched to each other. Dependable design. Quick acceleration boosts productivity. Volvo BM system-compatible design facilitates service.

Torque converter: Single stage

Transmission: Volvo BM Power Shift transmission of constant-shaft type with single-lever control. Fast and smooth forward/reverse shifting.

Shifting system: Volvo BM Automatic Power Shift (APS)

Axles: Volvo BM fully floating axle shafts with planetary-type hub reductions. Cast-steel axle housing. Flared front axle and oscillating rear axle. 100% differential lock on front axle (option).

Transmission	Volvo BM APS		
Torque converter	2.85:1		
Reverse			
Forward/reverse	High	Low (optional)	each (optional)
1	4.10	1.7 (1.7)	each (optional)
2	10.00	5.2 (5.2)	each (optional)
3	20.00	10.0 (10.0)	each (optional)
4 (forward only)	41.00	10.0 (10.0)	each (optional)

Ground roll force 17.2 kN (3.9 t)
Front and rear axle Volvo BM 4000-10
Crawler, rear axle 1000
Ground clearance at 10° inclination 400 mm



BRAKE SYSTEM

Simple, reliable system with two parts ensures high availability and safety. Self-adjusting internal oil-pressure-cooled disc brakes give long service intervals.

Service brakes: Volvo BM dual-circuit system with accumulators. Fully hydraulically operated internal oil-pressure-cooled disc brakes. Transmission lock-in during braking can be programmed.

Parking brake: Mechanically operated drum brake on front axle input shaft.

Secondary brake: One of the service brake circuits in the parking brake fulfills the safety requirements.

Number of disc brakes	2
Number of accumulators	2
Volume, each	0.3 (0.11 US gal)

The brake system complies with the requirements of ISO 2448, SAE J1473 and EN12034-1.

Volvo Loader Owners Manual

K Morrison



Volvo Loader Owners Manual:

Volvo Loader Owners Manual Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Volvo Loader Owners Manual**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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