

Volvo BM A40

6x6



- **Engine output:**
SAE J1349 Net
240 kW (328 hp)
- **Body volume:**
22 m³ (287 yd³)
- **Load capacity:**
26 t (60 sh tn)
- **Direct-injected, turbo-charged, intercooled Volvo low emission diesel engine.**
- **Fully automatic powershift transmission. High and low gear ranges.**
- **Hydraulic retarder as standard.**
- **Fully enclosed, forced-air-cooled multiple disc brakes with external cooling.**
- **One longitudinal and three transverse air-locks. All with 100% lock-up.**
- **Front axle with three-point suspension and effective shock absorption.**
- **Volvo BM terrain logic, individually oscillating axles and high ground clearance.**
- **Low interior noise level.**
- **Adjustable steering wheel.**

VOLVO BM

ENGINE



Volvo 6-cylinder, inline, direct-injected, turbocharged, intercooled 4-cycle low emission diesel engine with overhead valves and wet sump-type cylinder linings.

Meets USA (EPA) and California off-road regulation 1995.

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

Rated power at 1500 rpm	15	17000	20	27000
SAE J1349 Gross	240	240	240	240
Powertrain power at 1500 rpm	240	240	240	240
SAE J1349 Net 1500 rpm	240	240	240	240
SAE J1349 Net 1500 rpm	240	240	240	240
Max torque at 1500 rpm	240	240	240	240
SAE J1349 Gross	240	240	240	240
SAE J1349 Net	240	240	240	240
SAE J1349 Net 1500 rpm	240	240	240	240
Displacement total	1	240	240	240
Stroke	240	240	240	240
Speed	240	240	240	240
Compression ratio	15.1			

*) with fan at normal speed. With fan operating at full speed, the flywheel power is 240 kW (328 hp) which corresponds to 100% torque.

**) with fan at normal speed. With fan operating at full speed, the maximum torque is 240 Nm (174 lb ft) which corresponds to 100% torque.

ELECTRICAL SYSTEM



Voltage	12	24
Battery capacity	40	24 kWh
Alternator	40	1000
Starter motor	400	240

SERVICE REFILL CAPACITIES



Engine oil	1	120	20	110
Hydraulic oil	1	120	200	200
Brake fluid	1	120	100	100
Transmission oil	1	120	20	110
Starter	1	120	10	10
Water	1	120	40	10
Front axle	1	120	40	110
Front axle oil	1	120	40	110
Second axle oil	1	120	20	110
Brake cooling system	1	120	100	200
Brake cooling tank	1	120	100	200
Hydraulic system	1	120	200	200

DRIVETRAIN



Torque converter: Torque converter with free wheeling clutch and automatic lock-up in all ranges.

Transmission: Fully automatic planetary transmission with 8 gears forward and 2 in reverse.

Drumset: Volvo BM with 2 stage design, power take off and differential with lock-up function.

Axles: Volvo BM 6-wheel drive. All axles have transverse air-locks with 100% lock-up and fully floating axle shafts with planetary type hub reductions.

Differential locks: One longitudinal and three transverse. All with 100% lock-up.

Torque converter	100%
Transmission	Volvo BM
Drumset	Volvo BM
Axles	Volvo BM

Speeds with type 20.2 R 20

Low gear forward	1	each	each	9.8	15.5
	2	each	each	9.8	15.5
	3	each	each	15.4	25.5
	4	each	each	20.4	33.5
	5	each	each	25.4	41.5
	6	each	each	30.4	49.5
High gear forward	1	each	each	9.8	15.5
	2	each	each	15.4	25.5
	3	each	each	20.4	33.5
	4	each	each	25.4	41.5
	5	each	each	30.4	49.5
	6	each	each	35.4	57.5
Low gear reverse	1	each	each	9.8	15.5
High gear reverse	1	each	each	15.4	25.5
	2	each	each	20.4	33.5

SUSPENSION



VOLVO BM SUSPENSION SYSTEM

Front axle: One rubber spring with following absorber on each side. Stabilizer. Three shock absorbers on each side. The front axle is suspended at three points, each needs a coil-over shock absorber in rough terrain.

Logic: Volvo BM's unique terrain logic, which permits individual oscillation between the axles.

Volvo Semi Truck Repair Manual

Yi-Tong Ma



Volvo Semi Truck Repair Manual:

Chilton's Truck and Van Repair Manual ,1978 Presents removal and installation procedures and on truck adjustments for repairing older model trucks or vans **Popular Mechanics** ,1982-04 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it s practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle **Popular Mechanics** ,1980-11 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it s practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle *Popular Mechanics* ,1983-05 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it s practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle **Popular Mechanics** ,1981-07 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it s practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle Popular Mechanics ,1981-04 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it s practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle Popular Science ,1982-03 Popular Science gives our readers the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make it better **Popular Mechanics** ,1980-06 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it s practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle Popular Mechanics ,1980-07 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it s practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle *Popular Mechanics* ,1984-08 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it s practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle *Popular Science* ,1977-04 Popular Science gives our readers the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make it better **Popular Science** ,1981-10 Popular Science gives our readers the information and

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- Chapter 2: Essential Elements of Volvo Semi Truck Repair Manual
- Chapter 3: Volvo Semi Truck Repair Manual in Everyday Life
- Chapter 4: Volvo Semi Truck Repair Manual in Specific Contexts
- Chapter 5: Conclusion

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