

Volvo XC90

ENGINES

Type
Configuration
Displacement, cm ³
Engine cylinder block material
Cylinderhead material
Combustion chamber type
Compression ratio
Valves, no/cylinder
Camshafts
Engine management system
Ignition sequence
Engine idling speed
Fuel, rec. octane
Max output, kW (hp)/rpm.
Max torque, Nm/rpm.

B5254T2	
In-line 5 cyl., light press. turbo	
Transverse, all wheel drive	
2521	
Aluminium	
Aluminium	
Pent-roof	
9.0	
4	
2	
Microprocessor controlled fuel and ignition system with self diagnostics	
1-2-4-5-3	
670	
91-98 RON	
154 (210)/5000	
320/1500-4500	

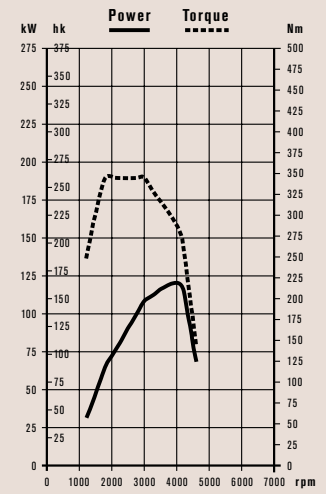
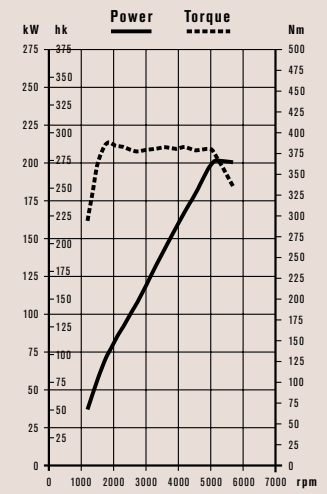
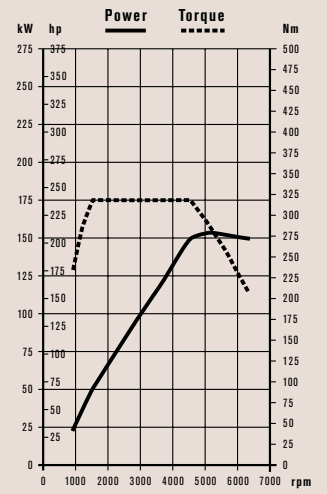
B6294T	
In-line 6 cyl., twin turbo	
Transverse, all wheel drive	
2922	
Aluminium	
Aluminium	
Pent-roof	
8.5	
4	
2	
Microprocessor controlled fuel and ignition system with self diagnostics	
1-5-3-6-2-4	
650	
91-98 RON	
200 (272)/5100	
380/1800-5000	

D5244T	
In-line 5 cyl. turbo diesel	
Transverse, all wheel drive	
2401	
Aluminium	
Aluminium	
-	
18	
4	
2	
Microprocessor controlled fuel and ignition system with self diagnostics	
1-2-4-5-3	
700	
Diesel Min Cetane 48	
120 (163)/4000	
340/1750-3000	

TRANSMISSIONS

5-speed/4-speed adaptive automatic transmissions with Geartronic, electronically controlled, with lock-up and winter mode selection.

Ratio	AW55-51	GM4T65
First	4.66	3.28
Second	3.03	1.76
Third	1.98	1.12
Fourth	1.14	0.79
Fifth	1.02	-
Reverse	5.11	2.67



Manual gearbox/final drive
Automatic gearbox/final drive

M66L/4.79
AW55-51/2.86

-
GM4T65/3.69

-
AW55-51/2.86

PERFORMANCE

Gearbox
Acceleration, 0-100 km/h (sec)
Top speed, km/h
Fuel consumption l/100 km (EC 199/100, combined) 5/7 Seat
CO ₂ g/km 5/7 Seat

Manual	Automatic
9.5	9.9
210*	210
11.1-11.4	11.8/12.0
-	282/287

Manual	Automatic
-	9.3
-	210*
-	12.7/12.9
-	304/309

Manual	Automatic
-	12.3
-	185
-	9.0/9.1
-	239/242

*Electronically controlled top speed

CHASSIS

Suspension	front	Spring-strut, lower link, anti-roll bar
	rear	Individual, multilink, coil springs, anti-roll bar
Steering		Rack and pinion, power assisted
Turning circle		11.9 m (16" wheel) 12.5 m (17", 18" wheel)
Turns of steering wheel end to end		2.8 (16") 2.7 (17", 18")
Braking system		ABS system with EBD. Ventilated discs front and rear.
Brake disc diameter	16" Front/Rear	306/308 mm
	17", 18" Front/Rear	336/308 mm

MEASUREMENTS AND VOLUMES

Exterior measurements (cm)	
Length	480
Width	190
Height	174
Wheelbase	286
Track, front	163
Track, rear	162
Ground clearance	21.8
Load height	87
Weights/Miscellaneous	
Weight, kg 5-seat/7-seat	1982/2046
Fuel tank, l	72
Max. trailer weight, kg	2250
Drag coefficient	0.36

Interior measurements (cm)		
Headroom with sunroof (front/rear)	101/99	
Headroom without sunroof (front/rear)	102/100	
Passenger compartment width at shoulder height (front/rear)		148/146
Luggage volume, litres		
(ISO V213/V211) 5-seat/7-seat	613/249	
Load length 5-seat/7-seat	112/57	
Load length with rear seat(s) folded down	189	
Load length with rear seat(s) and front passenger seat folded down	291	
Height of luggage compartment	87	
Width of luggage compartment between wheel arches		113