

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

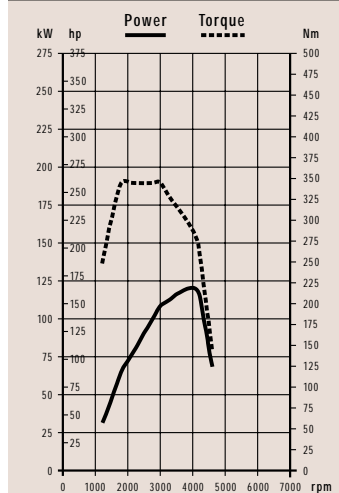
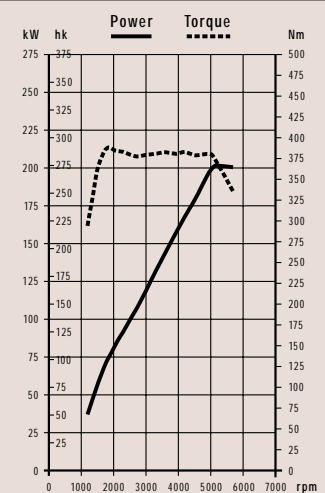
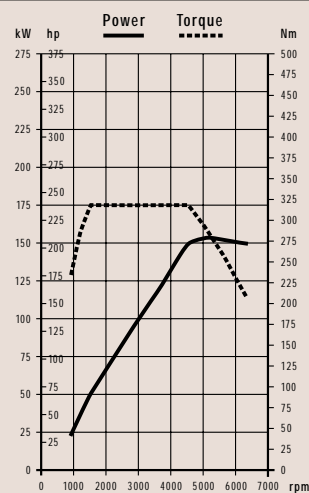
B6294T
In-line 6 cyl., twin turbo
Transverse, all wheel drive
2922
Aluminium
Aluminium
Pent-roof
8.5
4
2
Microprocessor controlled fuel and ignition system with self diagnostics
1-5-3-6-2-4
650
91-98 RON
200 (272)/5100
380/1800-5000

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	AW55-51/2.86

Manual gearbox/final drive	-
Automatic gearbox/final drive	GM4T65/3.69

Manual gearbox/final drive	-
Automatic gearbox/final drive	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

Manual	Automatic
-	9.9*
-	210
-	11.8/12.0
-	n.a.

Manual	Automatic
-	9.3*
-	210**
-	12.7/12.9
-	n.a.

Manual	Automatic
-	12.3*
-	185
-	9.0/9.1
-	n.a.

*Preliminary figure **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 V212/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