

Volvo S40

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 (hk)/rpm.
Max torque, Nm/rpm.

TRANSMISSIONS

5-speed manual gearbox. 5-speed adaptive automatic transmission, electronically controlled, with lock-up and winter mode selection.

Ratio	JB3-306	JC5-227	M56-H1	F5-M42	M56-L2	M56-H2	AW 55-50
First	3.36	3.36	3.07	3.58	3.39	3.07	4.77
Second	1.86	1.86	1.77	1.95	1.91	1.77	2.99
Third	1.32	1.32	1.19	1.27	1.19	1.19	1.96
Fourth	1.03	1.03	0.87	0.97	0.87	0.87	1.32
Fifth	0.82	0.82	0.70	0.82	0.65	0.65	1.02
Reverse	3.55	3.55	2.99	3.36	3.30	3.30	3.23

Manual gearbox/final drive

Automatic transmission/final drive

PERFORMANCE

Gearbox
Acceleration, 0-100 km/h (sec)
Top speed, km/h
Fuel consumption l/100 km (EEC 80/1268 1999/100, combined)
CO ₂ g/km, combined

CHASSIS

Suspension	front	Spring-strut, lower link, anti-roll bar
	rear	Individual, Multi-Link, with coil springs, anti-roll bar
Steering	Rack and pinion, power assisted	
Turning circle	10.6 m	
Turns of steering wheel lock to lock	3.1	
Braking system	ABS discs all round, ventilated at the front + EBD	
Brake disc diameter (front/rear)	256/260	
DSA (Dynamic Stability Assistance)		
S40T4/Others	Standard/Option	

B4164S2

In-line 4 cyl. naturally aspirated
Transverse, front wheel drive

1587

Aluminium

Aluminium

Pent-roof

10.0

4

2

Microprocessor controlled fuel and ignition system with self diagnostics

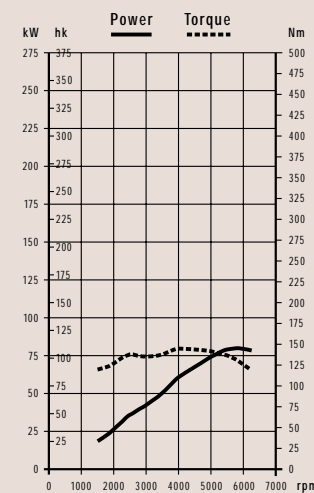
1-3-4-2

750

91-98 RON

80 (109)/5800

145/4000



JB3-306/4.07

-

Manual

Automatic

12.0

-

190

-

7.7

184

-

B4184S2

In-line 4 cyl. naturally aspirated
Transverse, front wheel drive

1783

Aluminium

Aluminium

Pent-roof

10.3

4

2

Microprocessor controlled fuel and ignition system with self diagnostics

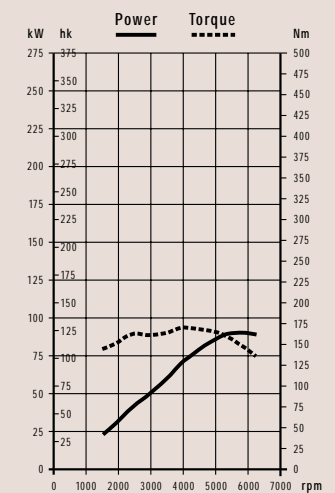
1-3-4-2

750 manual/700 automatic

91-98 RON

90 (122)/5800

170/4000



M56H1/4.45

AW55-50/2.86

Manual

Automatic

10.5

11.5

200

195

7.8

187

8.7

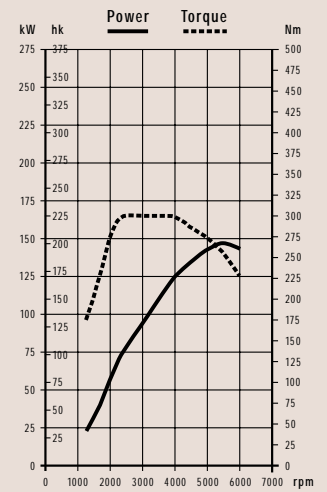
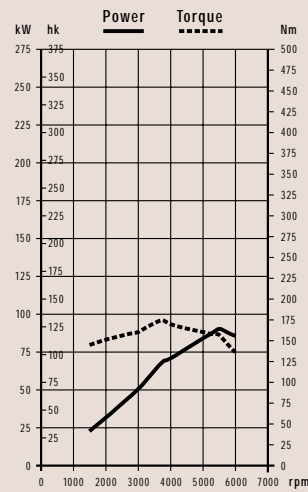
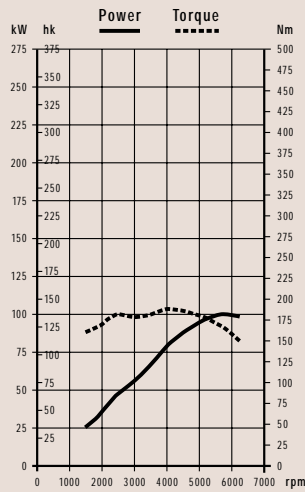
208

B4204S2
In-line 4 cyl. naturally aspirated
Transverse, front wheel drive
1948
Aluminium
Aluminium
Pent-roof
10.5
4
2
Microprocessor controlled fuel and ignition system with self diagnostics
1-3-4-2
750 manual/700 automatic
91-98 RON
100 (136)/5800
190/4000

B4184SJ
In-line 4 cyl. naturally aspirated
Transverse, front wheel drive
1834
Cast iron
Aluminium
Pent-roof
11.6
4
2
Microprocessor controlled fuel and ignition system with self diagnostics
1-3-4-2
620
95-98 RON
90 (122)/5500
174/3750

B4204T3
In-line 4 cyl., light press. turbo
Transverse, front wheel drive
1948
Aluminium
Aluminium
Pent-roof
9.0
4
2
Microprocessor controlled fuel and ignition system with self diagnostics
1-3-4-2
750
91-98 RON
120 (163)/5250
240/1800-4500

B4204T5
In-line 4 cyl., high press. turbo
Transverse, front wheel drive
1948
Aluminium
Aluminium
Pent-roof
8.5
4
2
Microprocessor controlled fuel and ignition system with self diagnostics
1-3-4-2
750
91-98 RON
147 (200)/5500
300/2500-4000



M56H1/4.45	
AW55-50/2.86	
Manual	Automatic
9.7	10.7
205	200
8.1	8.9
194	213

F5M42/3.72	
-	
Manual	Automatic
10.5	-
200	-
6.9	-
164	-

M56H1/4.00	
AW55-50/2.44	
Manual	Automatic
8.5	9.0
220	215
7.9	9.1
189	217

M56H2/4.25	
AW55-50/2.44	
Manual	Automatic
7.3	8.0
235	230
8.9	9.5
212	227

D4192T4/DI	D4192T3/DI	B4184S9 (LPG mode)	B4184S9 (petrol mode)
In-line 4 cyl., turbo diesel	In-line 4-cyl. turbo diesel	In-line 4 cyl. naturally aspirated, Bi-Fuel	In-line 4 cyl. naturally aspirated, Bi-Fuel
Transverse, front wheel drive	Transverse, front wheel drive	Transverse, front wheel drive	Transverse, front wheel drive
1870	1870	1783	1783
Cast iron	Cast iron	Aluminium	Aluminium
Aluminium	Aluminium	Aluminium	Aluminium
–	–	Pent-roof	Pent-roof
19.0	19.0	10.3	10.3
2	2	4	4
1	1	2	2
Integr. fuel/ignition system	Integr. fuel/ignition system	Microprocessor controlled fuel and ignition system with self diagnostics	Microprocessor controlled fuel and ignition system with self diagnostics
1-3-4-2	1-3-4-2	1-3-4-2	1-3-4-2
750	750	750	750
Diesel min cetane 48	Diesel min cetane 48	LPG	91–98 RON
75 (102)/4000	85 (115)/4000	88 (120)/5800	90 (122)/5800
215/1750–3250	265/1750–2500	167/4000	170/4000
M56L2/3.77	M56L2/3.77	JC5-227/3.87	JC5-227/3.87
–	–	–	–
Manual Automatic	Manual Automatic	Manual Automatic	Manual Automatic
12.0 –	10.5 –	11.0 –	10.5 –
185 –	195 –	200 –	200 –
5.4 –	5.4 –	10.4 LPG –	8.1 –
142 –	142 –	168 –	193 –

MEASUREMENTS AND VOLUMES

Exterior measurements (cm)		Interior measurements (cm)	
Length	452	Headroom with sunroof (front/rear)	96/93
Width	172	Headroom without sunroof (front/rear)	98/95
Height	142	Passenger compartment width at	
Wheelbase	256	shoulder height (front/rear)	137/137
Track, front	147	Luggage volume, litres (DIN V210)	471/415**
Track, rear	147	Load length	101/95**
Ground clearance	15	Load length with rear seat folded down	174/169**
Load height	67	Load length with rear seat and	
Weights/Miscellaneous		front passenger seat folded down	270/264**
Weight/kg min.	1255/1316**	Height of luggage compartment	51
Petrol tank, l	60	Width of luggage compartment	
LPG tank, l (usable)	40	between wheel arches	90
Max. trailer weight, kg	1400/1200*		
Drag coefficient	0.31–0.32		

* B4164S2, B4184S2, B4184S9 och B4184SJ ** Bi-Fuel