

# Volvo S40

## ENGINES

Type
Configuration
Displacement, cm <sup>3</sup>
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 <sub>2</sub> 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

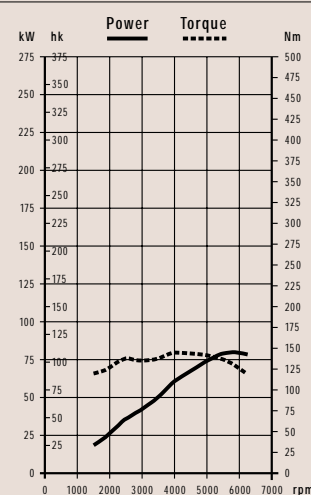
1-3-4-2

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

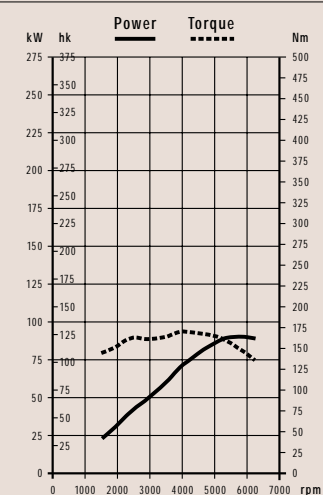
1-3-4-2

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

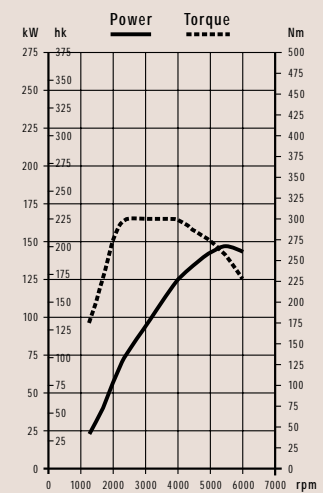
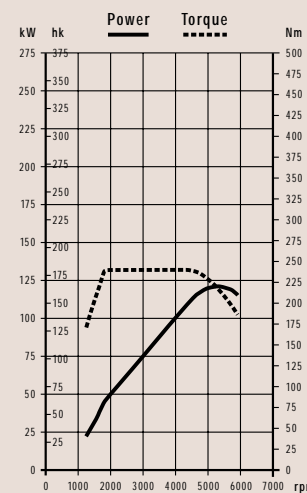
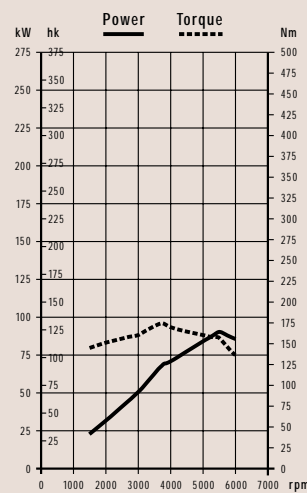
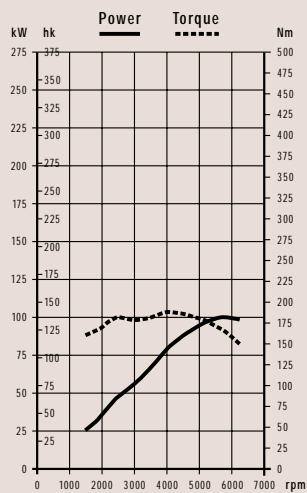
208

<b>B4204S2</b>
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

<b>B4184SJ</b>
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

<b>B4204T3</b>
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

<b>B4204T5</b>
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



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

<b>F5M42/3.72</b>	
-	
Manual	Automatic
10.5	-
200	-
6.9	-
164	-

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

<b>M56H2/4.25</b>	
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)

Length	452
Width	172
Height	142
Wheelbase	256
Track, front	147
Track, rear	147
Ground clearance	15
Load height	67
<b>Weights/Miscellaneous</b>	
Weight/kg min.	1255/1316**
Petrol tank, l	60
LPG tank, l (usable)	40
Max. trailer weight, kg	1400/1200*
Drag coefficient	0.31-0.32

### Interior measurements (cm)

Headroom with sunroof (front/rear)	96/93
Headroom without sunroof (front/rear)	98/95
Passenger compartment width at	
shoulder height (front/rear)	137/137
Luggage volume, litres (DIN V210)	471/415**
Load length	101/95**
Load length with rear seat folded down	174/169**
Load length with rear seat and	
front passenger seat folded down	270/264**
Height of luggage compartment	51
Width of luggage compartment between wheel arches	90

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