Volvo S80

ENGINES

<table>
<thead>
<tr>
<th>Type</th>
<th>Configuration</th>
<th>Displacement, cm³</th>
<th>Bore (mm)</th>
<th>Stroke (mm)</th>
<th>Engine cylinder block material</th>
<th>Cylinderhead material</th>
<th>Combustion chamber type</th>
<th>Compression ratio</th>
<th>Valves, no/cylinder</th>
<th>Camshafts</th>
<th>Engine management system</th>
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<tbody>
<tr>
<td>Petrol 2.5T</td>
<td>In-line, 5-cylinder LPT</td>
<td>2521</td>
<td>83</td>
<td>93.2</td>
<td>Aluminium</td>
<td>Aluminium</td>
<td>Pent-roof</td>
<td>10.8:1</td>
<td>4</td>
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<td>Integrated fuel (SFI) / ignition control system</td>
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POWER AND TORQUE

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</thead>
<tbody>
<tr>
<td>Petrol 2.0</td>
<td>4 cyl. Naturally aspirated</td>
<td>Transverse, FWD</td>
<td>1999</td>
<td>87.5</td>
<td>83.1</td>
<td>Aluminium</td>
<td>Pent-roof</td>
<td>10.8:1</td>
<td>4</td>
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TRANSMISSIONS

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

<table>
<thead>
<tr>
<th>Ratio</th>
<th>AWTF-80SC</th>
<th>M66W/F3A</th>
<th>M66W-F2A</th>
<th>M66D-F2A</th>
<th>M66D-F3A</th>
<th>MTX75-Q2</th>
<th>MTX75-D1</th>
<th>MMT6-W3</th>
<th>MPS6-2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Second</td>
<td>2.37</td>
<td>1.91</td>
<td>1.91</td>
<td>1.91</td>
<td>1.91</td>
<td>2.14</td>
<td>2.04</td>
<td>1.95</td>
<td>2.05</td>
</tr>
<tr>
<td>Third</td>
<td>1.56</td>
<td>1.27</td>
<td>1.27</td>
<td>1.19</td>
<td>1.19</td>
<td>1.45</td>
<td>1.25</td>
<td>1.24</td>
<td>1.37</td>
</tr>
<tr>
<td>Fourth</td>
<td>1.16</td>
<td>0.96</td>
<td>0.96</td>
<td>0.84</td>
<td>0.84</td>
<td>1.11</td>
<td>0.86</td>
<td>0.87</td>
<td>1.03</td>
</tr>
<tr>
<td>Fifth</td>
<td>0.86</td>
<td>0.78</td>
<td>0.78</td>
<td>0.65</td>
<td>0.65</td>
<td>0.90</td>
<td>0.67</td>
<td>0.94</td>
<td>1.16</td>
</tr>
<tr>
<td>Sixth</td>
<td>0.69</td>
<td>0.66</td>
<td>0.65</td>
<td>0.54</td>
<td>0.54</td>
<td>–</td>
<td>–</td>
<td>0.79</td>
<td>0.97</td>
</tr>
<tr>
<td>Reverse</td>
<td>3.39</td>
<td>3.23</td>
<td>3.20</td>
<td>3.20</td>
<td>3.23</td>
<td>3.73</td>
<td>3.72</td>
<td>5.10</td>
<td>4.84</td>
</tr>
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**ENGINES**

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<tr>
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<tbody>
<tr>
<td>Petrol V8 AWD</td>
<td>In-line 8-cylinder naturally aspirated</td>
<td>4414</td>
</tr>
<tr>
<td>Petrol 3.2</td>
<td>In-line 6-cylinder naturally aspirated</td>
<td>3192</td>
</tr>
<tr>
<td>Petrol T6 AWD</td>
<td>In-line 6-cylinder turbo petrol</td>
<td>2963</td>
</tr>
</tbody>
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<table>
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<tr>
<th>Engine</th>
<th>Bore (mm)</th>
<th>Stroke (mm)</th>
<th>Cylinder Block Material</th>
<th>Cylinderhead Material</th>
<th>Combustion Chamber Type</th>
<th>Compression Ratio</th>
<th>Valves, no/cylinder</th>
<th>Camshafts</th>
<th>Engine Management System</th>
<th>Ignition Sequence</th>
</tr>
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<tr>
<td>Petrol V8 AWD</td>
<td>94</td>
<td>79.5</td>
<td>Aluminium</td>
<td>Aluminium</td>
<td>Pent-roof</td>
<td>10.4:1</td>
<td>4/2</td>
<td>4</td>
<td>Microprocessor controlled fuel and ignition system with self diagnostics</td>
<td>1-8-4-3-6-5-7-2</td>
</tr>
<tr>
<td>Petrol 3.2</td>
<td>84</td>
<td>96</td>
<td>Aluminium</td>
<td>Aluminium</td>
<td>Pent-roof</td>
<td>10.8:1</td>
<td>4/2</td>
<td>4</td>
<td>Integrated fuel (SFI) / ignition control system</td>
<td>1-5-3-6-2-4</td>
</tr>
<tr>
<td>Petrol T6 AWD</td>
<td>82</td>
<td>93.2</td>
<td>Aluminium</td>
<td>Aluminium</td>
<td>Pent-roof</td>
<td>9.3:1</td>
<td>4/2</td>
<td>2</td>
<td>Integrated fuel (SFI) / ignition control system</td>
<td>1-5-3-6-2-4</td>
</tr>
</tbody>
</table>

**MEASUREMENTS AND VOLUMES**

**EXTERIOR MEASUREMENTS (MM)**

- Length: 4851
- Width (without mirrors): 1861
- Height (including shark fin): 1493
- Wheelbase: 2835
- Track, front: 1588/1578
- Track, rear: 1585/1575
- Ground clearance (+2 pers): 148
- Load height: 691

**WEIGHTS/MISCELLANEOUS**

- Weight, kg (min–max, depending on model): 1520–1920
- Fuel tank, l: 70
- Max. trailer weight, kg (depending on model): 1000–2000
- Drag coefficient: 0.29

**INTERIOR MEASUREMENTS (MM)**

- Headroom with sunroof (front/rear): 959/972
- Headroom without sunroof (front/rear): 985/973
- Passenger compartment width at shoulder height (front/rear): 1457/1431
- Luggage volume, litres (DIN V210): 480
- Load length: 1094
- Load length with rear seat folded down: 1927
- Loading height between cargo floor and parcel shelf: 492
- Width of luggage compartment: 1130

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**DIeSEL 2.0D**  
In-line, 4-cylinder turbo diesel  
Transverse, FWD  
1997  
85  
88  
Aluminium  
Aluminium  
Re-Entry  
18.5:1  
4  
2  
Common rail electronic fueling  
1-3-4-2  
800  
Diesel min. cetane 48  
100 (136)/4000  
320/2000

**DIeSEL 2.4D**  
In-line, 5-cylinder turbo diesel  
Transverse, FWD/AWD  
2400  
81  
93.15  
Aluminium  
Aluminium  
Re-Entry  
16.5:1  
4  
2  
Common rail electronic fueling  
1-2-4-5-3  
700 aut 740 man  
Diesel min. cetane 48  
151 (205)/3000–3250  
420/1500–2750

**DIeSEL 1.6 DRiVe**  
In-line, 4-cylinder turbo diesel  
Transverse, FWD  
1560  
75.0  
88.3  
Aluminium  
Aluminium  
Re-Entry  
18.3:1  
4  
2  
Common rail electronic fueling  
1-3-4-2  
790  
Diesel min. cetane 48  
80 (109)/4000  
240/1750

**DIeSEL D5**  
In-line, 5-cylinder turbo diesel  
Transverse, FWD/AWD  
2400  
81  
93.15  
Aluminium  
Aluminium  
Re-Entry  
16.5:1  
4  
2  
Common rail electronic fueling  
1-2-4-5-3  
700 aut 740 man  
Diesel min. cetane 48  
151 (205)/3000–3250  
420/1500–2750

**CHASSIS**  
Suspension  
front MacPherson Strut, Coil Springs,  
Hydraulic Shock Absorbers, Stabilizer Bar  
rear Independent Suspension with Coil Springs,  
Hydraulic Shock Absorbers, Stabilizer Bar  
Steering  
Power Assisted Rack and Pinion Steering  
Turning circle (Curb to curb)  
11.2 m  
Turns of steering wheel  
lock to lock  
2.8  
Brake system  
Antilock Braking System (ABS) with Electronic Brake Distribution (EBD) and Electronic Brake Assistance (EBA)

Brake disc diameter  
(front/rear)  
300, 316, 336 mm / 302 mm

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