

Section 1 Service and maintenance

Group 16 Lubrication

Engine

USA, Canada and Japan

Oil quality, as per API

Petrol engines

min. SG (SF)*

Diesel engines

min (CD)

Other markets

Oil quality, as per API

min. SG(SF)*

min. (CD)

as per CCMC.....

class G4/G5

class D4/PD2

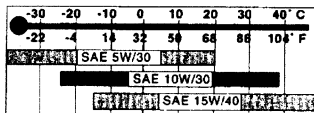
(G2/G3)*

(D2/PD1)*

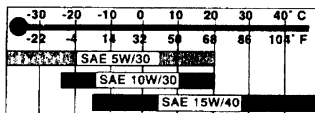
* The figures in brackets apply to oil change interval max. 10,000 km.

Viscosity (constant air temperature) USA, Canada and Japan

Diesel

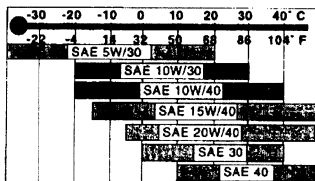


Petrol

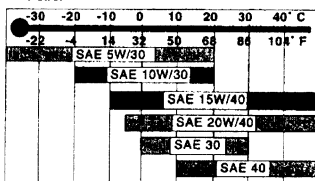


Viscosity (constant air temperature) Other markets

Diesel



Petrol



Synthetic or semi-synthetic oils may be used if they meet the requirements above.

Volvo does not recommend the use of oil additives since they can impair the engine's service life.

Note! Under extreme driving conditions resulting in abnormally high oil consumption, such as mountainous roads with considerable engine braking and continuous driving at high speed, we recommend SAE 15W/40 or SAE 20W/40. However, note the lower temperature limit.

Oil capacity in litres	Excl. oil filter	Incl. oil filter	Volume diff., max. - min., approx.
B 20	3.25	3.75	1.0
B 17, B 19*, B 21*, B 23, B 200, B 230	3.35	3.85	1.0
B 27, B 28	6.00	6.50	1.0
D 20, D 24	5.00	6.00	1.0

* For a completely empty system on Turbo add 0.6 litres for the oil cooler.

Transmission, manual

Lubricating oil, type:

M 40/41, M 50/51:

Transmission oil: quality ... API-GL-1
viscosity SAE 80W/90
alt. SAE 80/90

M 45, M 46, M 47:

ATF oil F or G*

Note!

Do **not** use ATF oil type Dexron.

Dampers and overdrive can slip.

Oil change volume.

M 40, M 45 litres 0.75
M 41, M 51 litres 1.6
M 50 litres 1.1
M 46 litres 2.3
M 47, early var. litres 1.3
late var. litres 1.6

Tightening torque

for oil plugs Nm 27- 40
..... (ft lbs) (20 - 29)

For cars driven in areas where the ambient temperature is lower than -10°C, or heavy mileage cars (e.g. taxis) we recommend Volvo thermal oil P/N 11 61 243-9.

Note! Do not mix different types of oils.

Transmission, automatic

Lubricating oil, type:

BW 35/55: ATF oil G (alt. F)

AW 70/71: Dexron II D or E

Oil capacity:

BW 35 litres 6.4
AW 70/71 litres 7.4

Oil change volume:

(draining only)

BW 55 early var. litres 3.0
late var. litres 3.5
(with deep sump)
AW 70/71 litres, approx. 3.9

Final drive

Lubricating oil:

type.....	Final drive oil
quality, without diff brake	
or with automatic	
differential lock (Eaton)	API-GL-5(6) or MIL-L-2105 B(C) Low friction oil. Volvo P/N 11 61 329-6 (0.5 litres)
with diff. brake (Dana)	API-GL-5(6) or MIL-L-2105 B(C) with additive for diff. brake. Volvo P/N 11 61 129-6 (0.5 litres)
viscosity, over - 10° C.....	SAE 90
under - 10° C.....	SAE 80
Oil change volume, 1030	litres 1.30
1031, early var.	litres 1.60
late var.	litres 1.75
1041	litres 1.60

Steering gear

Lubricant:

type:	Grease, Volvo P/N	11 61 001-1
quantity:		
mech	approx., grams	75
servo	approx., grams	100

Hydraulic oil, servo gear:

ATF oil type A, F or G*

(at temperatures below - 20° C Volvo oil

P/N 11 61 317-1 can be used).

qty, 240: 1975-1976.....	litres	1.1
1977-1984	litres	0.7
1985-1993	litres	0.8
qty, 260: 1975.....	litres	0.7
1976-1982	litres	1.2