

Section 1 Service and maintenance

Group 16 Lubrication

Oil quality

Meeting minimum ILSAC specification GF-2

Including: ACEA: A1/B1, API: SL, SJ/CF, SL Energy Conserving

Volvo engines have been certified to standards using ILSAC-oil specification GF-2

Use oil with quality rating equal to or higher than ILSAC GF-2.

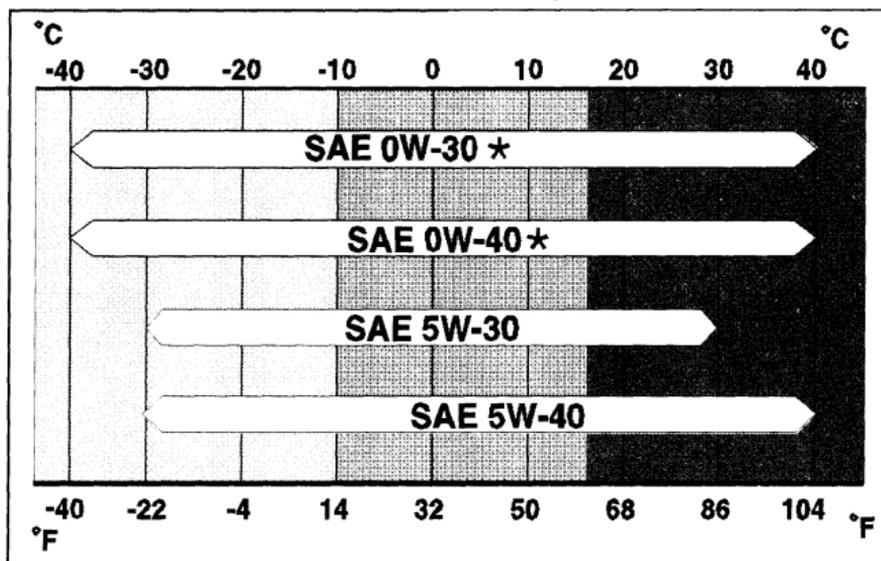
Equivalent and better oils include ILSAC GF-3, ACEA: A1/B1, A3/B3/B4, A5/B5 and API: SJ/Energy conserving. If ACEA classified oil not is available use ILSAC and API specified oil.

Lower quality oils may not offer the same fuel economy, engine performance, or engine protection.

Volvo fully synthetic engine oil is recommended for turbocharged engines.

Oil additives must not be used.

Viscosity



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Conditions:	Comments:
In temperate climates	Under normal use when temperatures do not exceed 30 ^o C/86 ^o F, SAE 5W-30 will provide good fuel economy and engine protection. See viscosity chart.
Extreme engine operation	Synthetic oils meeting ACEA:A3/B3, ACEA:A3/B3/B4 or ACEA:A5/B5 and complying with oil quality requirements are recommend for driving in areas of sustained temperature extremes (hot or cold), when towing a trailer over long distance, and for prolonged driving in mountainous areas.
In cold climates	In cold climates use the fully synthetic SAE 0W-30 or 0W-40 -oil See viscosity chart.

Note! After every oil change make the following check:

If oil level is at MIN on the oil stick fill with 1 litres, then check oil stick again to ensure that the oil level is within the markings.

Oil and oil filter changes should be made at 7.500 mile(12.000km) intervalls.

Oil capacity: liters / (US quarts)				
Engine type:	Including oil filter	Volume difference max – min, approximately	Volvo P/N:	Viscosity
B52X4X	5.8 (6.13)	1.5/(1.6)	11 61 711 Fully synthetic ACEA A5/B5 (1 litres/1.06 qts) 11 61 719 Fully synthetic ACEA A3/B3/B4 (4 litres/4.2 qts)	0W-30
B52X4X	5.8 (6.13)	1.5/(1.6)	11 61 708 Fully synthetic ACEA A3/B3/B4 (1 litres/1.06 qts) 11 61 709 Fully synthetic ACEA A3/B3/B4 (4 litres/4.2 qts)	0W-30
B52X4X	5.8 (6.13)	1.5/(1.6)	11 61 630 Fully synthetic ACEA A3/B3/B4 (1 litres/1.06 qts) 11 61 631 Fully synthetic ACEA A3/B3/B4 (4 litres/4.2 qts)	5W-40
B52X4X	5.8 (6.13)	1.5/ (1.6)	11 61 633 ACEA A1/B1 (1 litres/1.06 qts) 11 61 634 ACEA A1/B1 (4 litres/4.2 qts)	5W-30

Transmission, automatic: AW 55-51

Oil grade: Only the recommended Volvo transmission fluid may be used	Volvo P/N: 11 61 540 1 liter/1.05 US quarts
Oil capacity: AW 55	7.2 liters 7.9 US quarts
Transmission fluid volume (draining only): AW 55	approximately 3.0 liters 3.2 US quarts

Steering gear

Lubricants: Grease	Volvo P/N	11 61 669
Quantity		100 grams 3.5 ounces
Power steering fluid, power steering gear. Volvo Cars recommend Volvo Power Steering Oil. Do not use any other oil		
Power steering fluid	Volvo P/N	11 61 529
Quantity	system	1.21/1.3USqt
Quantity	container	0.21/0.2USqt

Brake and clutch fluid

Quality	minimum requirement	Dot 4+
Approx. volume		0.61/0.6USqt
Volvo P/N	0.25 1/0.26 US qt	94 37 433
Volvo P/N	0.77 1/0.81 US qt	94 37 434

Change oil every other year

Washer fluid

Quantity	liter/ US qt	6.5/ 6 8
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