

CHEMICALS FOR MAINTENANCE AND REPAIR

Genuine Volvo Penta oils, lubricants, coolants, sealants and more





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Note! The products displayed in this catalogue are not available in the US.



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Formulated to perform and protect

Using high-quality chemicals is important to ensure maximum reliability, durability and performance. That's why Volvo Penta offers a range of high-quality products, developed and tested to meet our specifications and stringent requirements – making them the best choice for maintenance and repair of Volvo Penta products.

Choose the right product

This catalog contains information about pack sizes, part numbers and general properties of our chemicals. To choose the right product for a specific task, please always follow the recommendations in Volvo Penta service and repair information.



Safety data sheets

Safety data sheets (SDS) contain information on chemicals such as health and environmental hazards, personal protection, composition, storage and emergency measures in the event of an accident.

Safety data sheets for Volvo Penta chemicals can be found at: www.volvo.com/sds



Note! All handling of chemicals entails health and environmental risk. Waste chemicals should be handled as environmentally hazardous waste. They may contain substances such as lead, nickel and copper, that may cause cancer and impurities. Ensure that waste chemicals is disposed of responsibly and according to the local regulations.



Volvo Penta oils

We and the Volvo Group invest significant resources in developing high-performance oils. And the reason is simple. Oil quality plays a vital role to get the most out of the engine and keep the cost of ownership down. As engines continue to evolve, with increased efficiency and more precise technology, it placing greater demands on oil performance than ever before.

Genuine Volvo Penta oils are extensively tested and quality assured by Volvo Penta. They are formulated to meet the specific requirements of Volvo Penta marine and industrial engines. Genuine Volvo Penta oils include powerful additive technology which are individually selected to optimize performance, reduce fuel consumption and extend the life of the engine.

The benefits of Genuine Volvo Penta engine oils

- Meet the specific requirements of Volvo Penta engines
- Lower fuel and oil consumption due to low internal friction
- Outstanding wear protection to prolong engine life
- Effective oxidation resistance and thermal stability, even under severe conditions, to prevent sludge and deposit build
- · Excellent protection against corrosion by controlling the acids formed as the fuel burns
- Improved engine cleanliness to maximize component life

Note! Please always refer to the operator's manual for information on the recommended oil quality, oil viscosity, oil quantity and oil change interval for the specific product.

Engine oil

Engine oil VDS-3

VDS-3 covers even more stringent requirements on piston cleanliness and bore polish compared to VDS-2, ensuring the durability and reliability of the engine. The high quality of VDS-3 oils allows in certain cases an increase in drain intervals. Fits both diesel and gasoline engines, please refer to the operators manual.

Designation	Part No.	Volume	Viscosity	Quality
Engine oil 15W-40 VDS-3	23909453	1 liter	SAE 15W-40	VDS-3
Engine oil 15W-40 VDS-3	23909454	5 liter	SAE 15W-40	VDS-3
Engine oil 15W-40 VDS-3	23909456	20 liter	SAE 15W-40	VDS-3
Engine oil 15W-40 VDS-3	23909457	209 liter	SAE 15W-40	VDS-3



Engine oil VDS-4.5

High-performance heavy-duty engine oil providing outstanding protection and fuel economy. VDS-4.5 delivers improved engine cleanliness and protection against piston deposits through the use of high-quality base oils and additive components. VDS-4.5 is available in two viscosities:

15W-40

VDS-4.5 15W-40 is fully backward compatible with all older Volvo Penta diesel engines. It is also recommended for certain gasoline engines, please refer to the operators manual/service bulletin.

Designation	Part No.	Volume	Viscosity	Quality
Engine oil 15W-40 VDS-4.5	23909459	1 liter	SAE 15W-40	VDS-4.5
Engine oil 15W-40 VDS-4.5	23909460	5 liter	SAE 15W-40	VDS-4.5
Engine oil 15W-40 VDS-4.5	23909461	20 liter	SAE 15W-40	VDS-4.5
Engine oil 15W-40 VDS-4.5	23909462	209 liter	SAE 15W-40	VDS-4.5



VDS-4.5 10W-30 is recommended for some newer engines (e.g. Stage V engines) to further improve durability and fuel economy. Always refer to the operators manual/service bulletin.

Designation	Part No.	Volume	Viscosity	Quality
Engine oil 10W-30 VDS-4.5	23068339	5 liter	SAE 10W-30	VDS-4.5
Engine oil 10W-30 VDS-4.5	17488420	20 liter	SAE 10W-30	VDS-4.5
Engine oil 10W-30 VDS-4.5	17488431	209 liter	SAE 10W-30	VDS-4.5



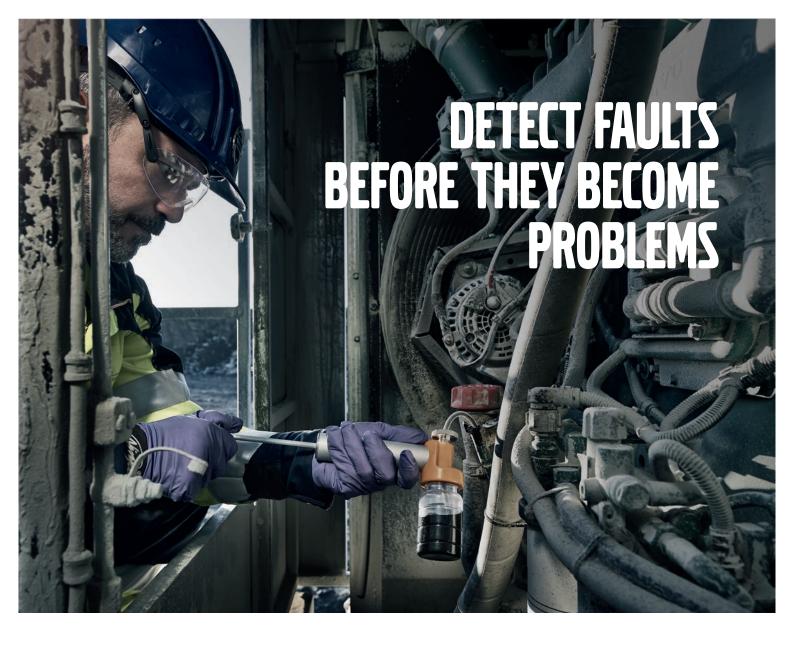
Synthetic gasoline engine oil

A fully synthetic oil specially developed for high performance gasoline engines. Its wide temperature range capability maximizes engine life. The additive system is designed to provide protection against wear and minimize deposit and sludge build-up. Particularly suitable for all engines equipped with catalyst but is also applicable to non-catalyst engines produced in model year 2008 and later.

Designation	Part No.	Volume	Viscosity	Quality
Petrol engine oil 5W-40	23211287	1 liter	SAE 5W-40	ACEA, API SN
Petrol engine oil 5W-40	23211288	5 liter	SAE 5W-40	ACEA, API SN
Petrol engine oil 5W-40	23211290	20 liter	SAE 5W-40	ACEA, API SN



Compressor oil, see page 16



Oil analysis for better control

Volvo Penta oil analysis provide a comprehensive health check of the engine and transmission condition. Analysis results indicate the presence of potentially harmful substances, allowing you to plan maintenance or other measures, before major failure occurs.

The benefits of Volvo Penta oil analysis

- Analysis done by accredited laboratories using specified limits values defined by Volvo Penta
- Increased control over engine and transmission condition providing additional peace of mind
- · Regular use makes trends visible and provides early warnings for abnormal wear
- Identify potential failures, before they occur.
- Helps to plan preventive maintenance

Please contact your local Volvo Penta representative for information on availability of the Volvo Penta oil analysis program in your market and how to get started.

Transmission, ATF and hydraulic oil

Marine synthetic transmission oils

High-performance fully synthetic transmission oils, specifically designed to ensure excellent load-carrying capability over wide operating temperatures. Provides optimal shift performance and maximum protection against wear and corrosion. Advanced marine additive technology includes unique capabilities to minimize damage due to water contamination.

All this ensures significant advantages over conventional transmission oils and contributes to smooth operation and long-term health for the drive.

IPS and Aquamatic synthetic transmission oil 75W-90

Designation	Part No.	Volume	
Synthetic transmission oil	22479650	1 liter	
Synthetic transmission oil	22479648	5 liter	
Synthetic transmission oil	22479647	20 liter	
Synthetic transmission oil	22479660	Barrel 208 liter	

For SX, SP-A2, SP-C (except ratio 2.15:1), DPS, FWD, DPI, DPH (except ratio 1.59:1), DPR, DPX, XDP, DP-A2 to DP-E, all IPS drives, S-drive 120S-E, reverse gear MS2A/L-E, MS4, MS5.

Synthetic transmission oil 75W-140

Designation	Part No.	Volume	Viscosity
Synthetic transmission oil 75W-140	22574246	5 liter	SAE 75W-140

For DPH ratio 1.59:1 (D6-400) and DPG drives (KAD300).

Transmission oil 80W-90

Lubrication properties protect drive and transmission even under heavy load. Also provides excellent corrosion protection.

Grade: API GL-5

Designation	Part No.	Volume	Viscosity	Quality
Transmission oil 80W-90	3809445	5 liter	SAE 80W-90	API GL-5

For AQ100, 280DP, 290DP, DP-A/A1 (except drives manufactured before 1986, for 30 or 40 series engine, and has previously used engine oil in the drive, continue to use engine oil).

Automatic Transmission Fluid (ATF)

For power steering, power trim system and HS reverse gears. Protects against wear, even at high temperatures. Also provides a very good corrosion protection. **Note!** Must not be used where API-GL5 is recommended.

Designation	Part No.	Volume	Туре
Automatic Transmission Fluid	23909464	1 liter	Dextron III
Automatic Transmission Fluid	23909465	5 liter	Dextron III

Hydraulic oil

For hydraulic steering system. Protects against wear at high and low temperatures. Also provides excellent corrosion protection. Particularly suitable for marine use. Does not affect seal materials.

Designation	Part No.	Volume	Туре
Hydraulic oil	22618337	1 liter	ISO VG 15











Coolants



Volvo Penta coolants

Genuine Volvo Penta coolants prevent freezing and overheating while providing maximum component protection. They are specifically formulated to meet the exact specifications of Volvo Penta engines and include powerful additive technology to prevent internal engine component degradation and thereby optimize engine life.

The benefits of Genuine Volvo Penta coolants:

- Optimal anti-freeze protection and thermal transfer capacity
- High boiling point prevents overheating
- · Maximum protection against corrosion, cavitation, ageing, swelling and cracking
- Compatible with and protects all materials in the engine's cooling system
- Does not leave any deposits in the cooling system
- Less impact on the environment, does not contain any amines or phosphates

Note! Volvo Penta provides two types of coolant: Volvo Penta coolant VCS (yellow) and Volvo Penta coolant (green). They are formulated for the specific requirements of different engine generations and contain unique additives that are not compatible. Therefore they should never be mixed. Always use the same type of Volvo Penta coolant that originally came with the engine.

Mixing data for concentrated coolants

Recommended mixture	Anti-freeze protection
40% concentrated coolant	-25° C
50% concentrated coolant	-35° C
60% concentrated coolant	-46° C

Note! Concentrated coolant should be mixed with pure distilled, deionized water or water which complies with Volvo STD 1285,1. Do not use tap water, it contains minerals that will form deposits inside the cooling system.

Coolants

Volvo Penta coolant VCS (Yellow)

This coolant is yellow in color. It is an organic additive technology (OAT) type of coolant specifically developed for the material used in newer generation of Volvo Penta engines. It prevent freezing and overheating while providing maximum component protection. Does not contain any nitrite, amine, phosphate or silicate. Does not require coolant filter. 4-year change interval.

Note! The Volvo Penta coolant VCS (Yellow) must not be mixed with Volvo Penta coolant (Green), nor be used in combination with coolant filter. Please refer to the operators manual.

Designation	Part No.	Volume	
Designation	1 411 1101	Volume	
Yellow ready Mixed 40%	22567314	5 liter	(to -25°)
Yellow Ready Mixed 40%	22567335	20 liter	(to -25°)
Yellow ready Mixed 40%	22567340	Barrel 210 liter	(to -25°)
Yellow Concentrate	22567286	1 liter	
Yellow Concentrate	22567295	5 liter	
Yellow Concentrate	22567305	20 liter	
Yellow Concentrate	22567307	Barrel 210 liter	
Yellow Concentrate	85137067	IBC 1000 liter*	

^{*} Sold in quants of 1000 liters



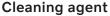
Volvo Penta coolant (Green)

This coolant is green in color. It is specifically developed for the material used in older generation of Volvo Penta engines. It prevents freezing and overheating while providing maximum component protection. Does not contain any nitrites, amine or phosphate. 2-year change interval. Change coolant in "out of step" with coolant filter if such is used.

Note! The Volvo Penta coolant (Green) must not be mixed with Volvo Penta coolant VCS (Yellow). Please refer to the operators manual.

Designation	Part No.	Volume	
Green Ready Mixed 40%	22567233	5 liter	(to -25°)
Green Ready Mixed 40%	22567259	20 liter	(to -25°)
Green ready Mixed 40%	22567261	Barrel 210 liter	(to -25°)
Green Concentrate	22567185	1 liter	
Green Concentrate	22567206	5 liter	
Green Concentrate	22567215	20 liter	
Green Concentrate	22567217	Barrel 210 liter	
Green Concentrate	1161991	IBC 1000 liter*	

^{*} Sold in quants of 1000 liters



Cleaning agent for cooling systems where Volvo Penta coolant VCS (yellow) is used. 1 kit for $40\,\mathrm{l}$ coolant system.

Note! This cleaning agent is only to be used for cooling system with coolant VCS Yellow. For cleaning of cooling systems with green coolant, please see Service Bulletin 26-0 29 4.

Designation	Part No.	Volume
Radiator cleaner/Neutraliser	21467920	500 gr + 2 liter





Paints



Volvo Penta paints

Volvo Penta spray and brush enamels are specially formulated to withstand elevated engine temperatures and to duplicate the original factory colors of Volvo Penta engines and drives. While helping to maintain the original appearance, these paints are intended to provide additional protection against rust and corrosion.

Volvo Penta spray enamels are environmentally friendly aerosol products, containing no chlorofluorocarbons (CFCs). Used in combination with the Volvo Penta spray enamel metal primer, the products deliver smooth, dust-free finishes that dry quickly.

Paints

Primer

Designation	Part No.	Volume	Туре
Blue-grey	1141562	400 ml	Spray can



Touch-up paint - engine

Designation	Part No.	Volume	Туре
Green, gloss	22618341	1 liter	Tin
Red	22618346	1 liter	Tin
Green, matt	22618344	1 liter	Tin
White	22618302	1 liter	Tin
Green, matt	1141566	400 ml	Spray can
Red	827501	400 ml	Spray can
Dark grey	3851221	400 ml	Spray can



Touch-up paint - drive

Designation	Part No.	Volume	Туре
Blue-grey	1141567	400 ml	Spray can
Grey	1141575	400 ml	Spray can
White	1141560	400 ml	Spray can
Black, matt	1141568	400 ml	Spray can
Silver, SX, DPS, FWD, IPS 1*	3851219	400 ml	Spray can
Clear varnish	827502	400 ml	Spray can
Silver + clear varnish, DPG, DPH, DPR, DPI, S-drives, IPS**	889968	2 x 400 ml	Spray can, 2 pcs
Grey + clear varnish, DPX	3851220	2 x 400 ml	Spray can, 2 pcs





^{*} IPS 1 generation A, B, C (up to SN 3194009615) ** IPS 15, 2, 3, 30 and IPS 1 generation D and later (from SN 3194009616)

Lubricants

Water resistant grease

Volvo Penta water resistant grease is designed to provide excellent adhesion, water resistance and load-carrying properties, as well as long-term protection against corrosion. Itis a multi-purpose premium grease and is highly recommended for greasing joints and propeller shafts, folding propellers and all other propeller components.

Designation	Part No.	Volume	Colour	Quality	
Waterproof grease	828250	25 gr	Blue	NLGI 2	
Waterproof grease	22618330	400 gr	Blue	NLGI 2	



Impeller lubricant (Glycerine)

Rubber lubricant for impellers, oil-sensitive O-rings or rubber components.

Designation	Part No.	Volume	Quality
Impeller lubricant	3862178	7 gr	Glycerine



Grease for traditional stuffing boxes

Water resistant grease for traditional propeller shaft stuffing boxes fitted with a greasing cup. Lubricates, seals and protects against corrosion. Copes with prolonged loads without losing its protective characteristics.

Designation	Part No.	Volume	Colour	Quality
Propeller Shaft Grease	3809449	500 gr	Yellow	NLGI 3



Vaseline

For plastic and rubber parts.

Designation
Plastic/Rubber lubricant



Low-temperature grease

A special grease recommended for low loads and low temperatures $(-50^{\circ}\text{C to} +100^{\circ}\text{C})$. This grease is especially suitable for use on controls, hinges, lock parts and for greasing electric contacts, switches, etc.

Note! Not for EVC components.

Designation	Part No.	Volume	Quality
For electrical components	1161417	30 gr	NLGI 1



Lubricants

Rubber lubricant

Diffusing rubber lubricant fluid. For IPS suspension rings and installation of propeller hubs.

Designation	Part No.	Volume	
Rubber lubricant	22618333	100 ml	



Lubricant for injectors

Assembly compound for injectors, decreases risk of injectors getting stuck. Good corrosion protection and running-in of metallic components.

Note! Not for all engines. Please refer to workshop manual.

Des	ignation	Part No.	Volume	Colour
Ass	embly Compound	22618335	500 gr	White



Lubricant for cylinderhead screws

Lubricant for angle tightening tensile bolts. For cylinderhead screws.

Designation	Part No.	Volume	
Lubricant	3588347	25 gr	



Bearing grease

Bearing grease is a lithium complex mineral oil based grease with EP additives. The grease is recommended as a universal grease for all ball and roller bearings which are used at both high and low running temperatures.

Volvo Penta bearing grease has good thermal stability, which means that it can withstand the high temperature peaks which can occur in bearings during heavy, long-term braking. The grease also has good rust-prevention performance.

-				
'	Designation	Part No.	Volume	Quality
1	Bearing Grease	1161251	400 gr	NLGI 2



Silicone grease for crankshaft seal

Volvo Penta Silicone grease PTFE gives good resistance to oxidation, water and high relative humidity. The grease has a wide temperature range and is highly suitable for lubricating between plastic/plastic and plastic/metal. The grease should not be mixed with other greases.

Designation	Part No.	Volume	Quality
PTFE, Silicone grease	1161687	12 ml	PTFE Silicone
PTFE, Silicone grease	1161325	50 gr	PTFE Silicone



Lubricants

Grease for propeller shaft seal rings

For DPH and DPI drives. Long-term and high-temperature lubricating grease resistant to oxidation and ageing and protects against corrosion. Improved sealing effect due to high adhesion.



Grease

White high pressure grease (lithium soap).

Designation	Part No.	Volume	Colour	Quality
Grease	85145748	50 gr	White	NLGI 2



Sealants

Master gasket - Liquid sealing agent

Replaces conventional paper gaskets and provides an immediate "custom made" gasket. Resistant to petrol, oil, anti-freeze, transmission oils and solvents. Operating temperature range: -50°C to +150°C.

Designation	Part No.	Volume	Colour
Sealing Compound	22618325	25 ml	Red



Chemical gasket

Ideal for use on rigid flanges where high temperatures and chemical resistance are necessary at -50 $^{\circ}$ C to 200 $^{\circ}$ C.

Designation	Part No.	Volume
Chemical Gasket	22618326	50 ml



Gasket cement

A viscous and slow drying cement intended primarily for gaskets and similar. Dries to a pliable film.

Designation	Part No.	Volume
Sealant	1161099	125 ml



Sealants

Silicone - Black sealing compound

A single component black silicon adhesive that cures at room temperature. Suitable for both gluing and sealing operations where a strong elastic seam capable of withstanding temperatures from -65°C to $+230^{\circ}\text{C}$ is required. Excellent adhesion to metal, rubber, glass and most plastics. The silicon adhesive is resistant to oils, greases, solvents, etc.

Designation	Part No.	Volume	Туре
Silicone – Black sealing compound	1161231	310 ml	Black
Silicone – Black sealing compound	1161277	20 gr	Black



Sealant

Silicone, high temperature resistance. Ideal for metal components such as cast iron components and pump housings.

Designation	Part No.	Volume	
Liquid gasket	22618327	300 ml	-50°C - +150°C
Adhesive Sealant	21110325	310 ml	Up to +350°C

Sealant

A graphite based black sealant and rust-proofing agent for pipe joints, flanges, threaded connections on, for example, the exhaust system. Will not damage gasket materials even at high temperatures.

Designation	Part No.	Volume
Sealant	1161929	1 kg



Sealant

Graphite based lubricant and sealing paste. Anti-seize and thread sealant paste.

Designation	Part No.	Volume
Sealant	85134750	8 ml

How to choose the right product?

Some chemicals have similar properties and field of application. To choose the right product for the specific task, always refer to the recommendations in Volvo Penta service and repair information.

Adhesive and locking fluid

Glue

Excellent adhesive strength and resistance to oil. Ideal for applications involving large gaps. May be used on metal, plastic or painted components.

Designation	Part No. Volume		Туре	Quality
Glue	23223194	40 ml	Adhesive	-60°C - +200°C



Metal adhesive

Maximum resistance against dynamic, axial and radial loads. Ideal for shafts, gears, blocks and similar cylindrical components.

Designation	Part No.	Volume	Туре	Quality
Metal adhesive (Green)	22618324	50 ml	Adhesive	-55°C till +150°C



Thread locking agent

Volvo Penta thread locking fluid secures fasteners from self-loosening and prevents loss of clamp load due to vibration and shock loads. They are easy-flowing liquids which fill the gaps between mating threads and prevent corrosion by creating a unitized assembly.

Designation	Part No.	Volume	Туре	Quality
Thread locking agent – medium strength (Blue)	23284156	10 ml	Locking fluid	-55°C - +150°C
Thread locking agent – extra strong (Green)	85145751	10 ml	Locking fluid	-55°C - +150°C
Thread locking agent – for hydraulics (Brown)	85145752	50 ml	Locking fluid	-55°C - +150°C



Miscellaneous

Synthetic compressor oil

Fully synthetic compressor oil that withstands both high and low temperatures. Protects compressor against corrosion.

Designation	Part No.	Volume
Compressor oil	85108974	250 ml



Rapid rust loosener

A multi purpose spray with excellent penetration and contact properties. It loosens rust seized metal parts connections and other mechanisms without destruction. It removes moisture in electric contacts, protects from corrosion and oxidation. It eliminates squeaking and reduces friction.

Designation	Part No.	Volume
Rapid rust loosener	1161928	400 ml



Miscellaneous

Cleaning agent

To assist with cleaning in areas where high degree of cleanliness is required.

Designation	Part No.	Volume
Brake cleaner	85141044	500 ml



Anti-rust agent

Thin ML rust prevention oil spray. A solvent-free rust prevention oil in spray can. The product is intended to be used in sills, beams and other box sections. A soft, waxy film is left after treatment. The rust prevention oil can be sprayed with the accompanying hose, without using any special nozzles.

Before use, clean surfaces to be treated with white spirit or degreaser

Designation	Part No.	Volume	
Anti-rust agent	85148526	500 ml	



Marking ink

Yellow pigment to be mixed with a very small amount of oil. To be used when checking contact pattern of gears.

Designation	Part No.	Туре
Marking ink	3807716	Paint



Urea solution

AdBlue is required for most new diesel driven vehicles in Europe to reduce emissions of harmful particulates.



Bilge oil boom

The Bilge Oil Boom is ideal for keeping the bilge safe and clean. Simply drop or anchor (with attached rope) in the bilge and the Bilge Oil Boom will efficiently absorb waste oil, fuel and hydraulic fluid. Does not absorb water and will stay afloat even when soaked with oil. Absorbs up to 4.5 l.

Dimensions: 380 x 130 mm.

Designation	Part No.	
Sorbent boom	21699860	



Oil & Water sorbent pads

The Oil & Water Sorbent Pads can be used for all engine and driverelated spills and leaks. Absorbs petroleum products, cooling liquid, water etc. You can even use it to wipe off the bilge after the work is done. Absorbs up to 0.7 l per pad. Dimensions: $400 \times 500 \times 4.7$ mm.

Designation	Part No.	
Sorbent pads	21699859	Roll of 4 pads



Explanations

ACEA

European Automobile Manufacturers' Association. Specifies oils for passenger cars, light duty and heavy duty vehicles.

API

American Petroleum Institute. Specifies oil quality.

ATF

Automatic Transmission Fluid.

EP grease

Grease containing additives to prevent metals surfaces from seizing under extreme pressure conditions. EP stands for Extreme Pressure.

ISO VG

Viscosity classification of industrial oils. VG stands for Viscosity Grade.

NLGI grade

A scale for comparing consistency of lubricating greases. Number are in order of increasing consistency (hardness) with NLGI 0 being semifluid and NLGI 6 solid.

PTFE

Polytetrafluoroethylene, also known as TEFLON®.

SAE

Society of Automotive Engineers. Classification of lubricants depending on their viscosity. The lower the SAE-number, the thinner the oil.

SDS

Safety Data Sheets. Volvo Penta safety data sheets can be found at: www.volvo.com/sds

VDS

Volvo Drain Specification. The Volvo Groups own unique quality performance specification for oils. Developed to meet the specific requirements of Volvo/Volvo Penta engines.

vcs

Volvo Coolant Specification. The Volvo Groups own quality performance specification for coolants.

 $TEFLON^{\otimes}$ is a registered trademark of Chemours.

Notes:	

Please note that products illustrated may differ from production models. Not all products are available in all markets. Every effort has been made to ensure that facts and figures are correct at the time of publication. However, Volvo Penta reserves the right to make changes without prior notice at any time.



www.volvopenta.com