



VOLVO ENGINE OIL VDS-4.5 15W-40



Volvo Engine Oil VDS-4.5 is a high performance multigrade heavy-duty diesel engine oil.

Description

Volvo Engine Oil VDS-4.5 is a uniquely formulated heavy-duty diesel engine oil incorporating proprietary additive technology. It is designed to provide optimum performance in all engines used in Volvo machinery in terms of function, performance and durability.

Volvo Engine Oil VDS-4.5 exceeds the demands of API CK-4 and the requirements of all major diesel engine manufacturers.

Volvo Engine Oil VDS-4.5 is fully backwards compatible with Volvo Engine Oil VDS-3 and VDS-4 and can be used in all older engines where VDS-2, VDS-3 or VDS-4 oils are currently recommended.

Volvo Engine Oil VDS-4.5 is recommended for off-highway applications in severe low speed / high load operating conditions where ultra-low (15 ppm) sulphur fuels are used. Volvo Engine Oil VDS-4.5 is also recommended for high speed / high load on-highway applications as well as short haul / delivery vehicles.

Application

Volvo Engine Oil VDS-4.5 addresses the specific requirements of Volvo Stage IV/Tier 4f engines. This ensures individual operating factors are tackled thereby maximising synergies between the mechanical hardware and the lubricant as well as

calibration of engine control software. This facilitates the smooth and efficient running of your Volvo engine under all operating conditions and in all environments contributing additional benefits in comparison to market general fluids.

Volvo Engine Oil VDS-4.5 has been specifically developed and designed for modern high-output, low emission engines with Exhaust Gas Recirculation (EGR), Selective Catalytic Reduction (SCR) and/or Diesel Particulate Filter (DPF) after-treatment systems.

Why choose Volvo Engine Oil VDS-4.5?

Volvo Engine Oil VDS-4.5 represents a major advancement in performance and durability over VDS-4 and API CJ-4 engine oils, providing functional improvements including:

- "Markedly" increased shear stability.
- Improved oxidation resistance.
- Better aeration control.
- Enhanced protection for engines in harsher environments
- Full after-treatment functionality with tougher emission restrictions.
- Provides improved protection against high temperature deposits, sludge build-up, oil degradation and corrosion.
- Resistance to oil thickening is significantly superior to the limit given for the API CK-4 industry standard (by as much as 60%),

Excellent low temperature properties ensuring ready oil circulation on start-up.

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Quality specification

- Volvo VDS-4.5
- Approved against Volvo standard 417-0003
- ACEA E9
- API CK-4 / API CJ-4 / CI-4 Plus / CI-4 / CH-4
- Caterpillar ECF-3
- Mack EOS-4.5
- Detroit DFS 93K222
- Cummins CES 20086
- Deutz DQC III-10 LA, DQC III-18 LA
- MTU Category 2.1
- Renault RLD-3

VOLVO LUBRICANTS

Performance, Protection and Uptime

The use of genuine Volvo Lubricants means the machine will perform at its best for longer, increasing uptime and saving on overall costs. It also means the machine will function as originally intended - with the same fuel saving and performance capabilities, reducing emissions for best possible environmental care.

Volvo Lubricants are a design component of a machine, just like gears or hydraulic system. In the design, effort is put on maximizing shear stability to reach maximum performance over the entire service interval. Volvo Lubricants are tested and approved and meet the highest demands there are in the industry.

GENUINE VOLVO PARTS

Part number

Contact your local dealer

Our attention to detail is what makes us stand out. This proven concept acts as a solid investment in your machine's future.

Parts are extensively tested and approved because every part is vital for uptime and performance. Only by using Genuine Volvo Parts can you be sure that your machine retains the renowned Volvo quality.

Typical Properties

| | | | 15W-40 | |
|-------------------------|-----|-------------|--------|------------|
| Density at 15°C | | kg/l | 0.87 | ASTM D1298 |
| Viscosity at 40°C | | cSt | 107 | ASTM D445 |
| Viscosity at 100°C | | cSt | 14.7 | ASTM D445 |
| CCS Viscosity at -20°C | | mPa·s | 5700 | ASTM D5293 |
| HTHS Viscosity at 150°C | | mPa·s | 4.1 | ASTM D4683 |
| Pour Point | | °C | -42 | ASTM D97 |
| Flash Point | | °C | 240 | ASTM D92 |
| Sulphated Ash | max | %wt | 1.0 | ASTM D874 |
| Total Base Number | | mg KOH/100g | 8.5 | ASTM D2896 |

The above data are indicative values and minor variations may occur which do not affect product performance.



Volvo Construction Equipment

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