



Highway MD SAE 10W-40

Multigrade engine oil

DESCRIPTION

HARTOL Highway MD SAE 10W-40 is a top-quality diesel engine oil based on the latest additive technology combined with special and synthetic base oils. This engine oil has the following properties:

- a very powerful detergency prevents deposits in the engine;
- a very strong dispersion that prevents from precipitation and sludge;
- a decreased tendency to particle forming increases the lifetime of the particle filter;
- a powerful activity against corrosion and foam;
- a high and stable natural viscosity index;
- a low sulphated ash, phosphor and sulphur content (low SAPS);
- a powerful activity against wear, resulting in strongly reduced wear of piston-rings and cylinder-liners;
- contributes to a decrease of the maintenance costs.

APPLICATION

HARTOL Highway MD SAE 10W-40 has mainly been developed for heavy diesel engines even under the toughest operation conditions and all the year round. This product is very suitable for Euro 4, Euro 5 and Euro 6 engines in combination with diesel fuel with a low sulphur content. This engine oil is also suitable for application in engines with or without particle filters and exhaust catalyts. This engine oil is one of the "low SAPS" group lubricants.

SPECIFICATIONS

- ACEA E6, E7, E8, E9, E11
- API CI-4
- Deutz DQC IV-18 LA
- Mack EO-N
- DTFR 15C110 (228.51)
- NATO-code O-1180, TL 9150-0107/4
- Renault VI RLD-2
- Volvo VDS-3
- Cat ECF-1
- Cummins CES 20076 / 20077
- JASO DH-2
- MAN M 3477 / M 3271-1 / M 3271-3
- MB 228.51
- MTU Type 3.1
- DAF Extended Drain
- Iveco 18-1804 TLS E9
- Renault VI RXD / RGD



**TYPICAL
PROPERTIES**

• Density at 15 °C, kg/l	0,866
• Viscosity -20 °C, mPa.s	5810
• Viscosity 40 °C, mm ² /s	98,20
• Viscosity 100 °C, mm ² /s	14,70
• Viscosity Index	156
• Flash Point COC, °C	246
• Pour Point, °C	-36
• Total Base Number, mgKOH/g	10,1
• Sulphate Ash, %	1,00