



Endurance M SAE 15W-40

Multigrade engine oil

DESCRIPTION

HARTOL Endurance M 15W-40 is a universal multigrade engine oil for diesel and gasoline engines formulated with solvent refined base oils and a well-balanced choice of additives:

- a very powerful detergency prevents deposits in the engine;
- a very strong dispersion that prevents from precipitation and sludge;
- a powerful activity against corrosion and foam;
- a high and stable viscosity index;
- a powerful activity against wear resulting in strongly reduced wear of piston-rings and cylinder-liners.

APPLICATION

This engine lubricant is applicable to gasoline and diesel engines (normally- or turbo aspirated) even under tough operation conditions and all the year round. This engine oil has a special additive system and may therefore be used, when fuels with relatively high Sulphur contents are involved. This product is suitable for application in Euro 4 and Euro 5 engines.

SPECIFICATIONS

- ACEA E7
- API CI-4 / SL
- DTFR 15B110 (228.3)
- Mack EO-N
- Renault VI RLD-2
- Volvo VDS-3
- Cat ECF-1-a / ECF-2
- Cummins CES 20077 / 20078
- Detroit Diesel 93K215
- Deutz DQC III-18
- Global DHD-1
- JASO DH-1
- Mack EO-M Plus
- MAN M 3275-1
- MB 228.3
- MTU Type 2
- Allison C3
- CAT TO-2
- ZF 04C / 04P / 07C / 07D / 21K

TYPICAL PROPERTIES

- Density at 15 °C, kg/l 0,875
- Viscosity -20 °C, mPa.s 6300
- Viscosity 40 °C, mm²/s 115,00
- Viscosity 100 °C, mm²/s 15,10
- Viscosity Index 136
- Flash Point COC, °C 230
- Pour Point, °C -36
- Total Base Number, mgKOH/g 11,1
- Sulphate Ash, % 1,43