

This fuel economy Heavy Duty engine oil is formulated with unique low SAPS high performance additives in combination with special selected base oils. This multigrade engine oil fulfills the latest requirements of OEM's for use in high speed four stroke diesel engines of the latest models and has the following properties:

meets or exceeds the requirement of the nowadays low emission standards

excellent cold start properties

a very good shear stability

an improved oxidation resistance

a very strong dispersion, therefore the deposits and sludge are restricted to a minimum

excellent properties against wear, corrosion and foam

a lower fuel consumption

## Performance

- ACEA E7/E9
- MACK EOS-4.5
- VOLVO VDS-4.5
- M3575
- DETROIT DIESEL 93K222
- FORD M2C171-F1
- MTU TYPE 2.1
- API CK-4
- RENAULT VI RLD-3/RLD-4
- CAT ECF-3
- CUMMINS CES 20086
- DEUTZ DQC III-10LA
- MB228.31

## Applications

This fuel economy Heavy Duty engine oil is suitable for use in both on-road and off-highway applications. This engine oil contributes to low exhaust emission and particle levels benefits highly to the lifetime of emission control systems. By meeting the requirements of OEM's in Europe and North America this product has a wide choice of application possibilities. This product can be applied in Euro 5 and Euro 6 engines with SCR exhaust gas system and in Euro 3 and Euro 4 engines, when indicated by the manufacturer.

| Characteristics  | Unit               | Average |
|------------------|--------------------|---------|
| Density at 15 °C | kg/l               | 0.870   |
| Viscosity -25 °C | mPas               | 6510    |
| Viscosity 40 °C  | mm <sup>2</sup> /s | 81.20   |
| Viscosity 100 °C | mm <sup>2</sup> /s | 12.00   |
| Viscosity index  |                    | 142     |
| Flash point COC  | °C                 | 228     |

|                   |         |      |
|-------------------|---------|------|
| Pour point        | °C      | -39  |
| Total Base Number | mgKOH/g | 10.0 |
| Sulphated Ash     | %       | 1.00 |