repsol lubricants

## Heavy Duty Diesel Oil

# GIANT 9640 LS-FE-LL 5W-30

## Description

A Mid SAPS synthetic lubricating oil that is adapted to the latest needs of diesel vehicles, offering excellent performance in the most severe conditions. Its reduced ash content makes it suitable for engines equipped with exhaust after-treatment systems, such as particle filters and SCR. Its viscosity reduces fuel consumption and makes it more environmentally friendly. It is recommended for engines that comply with EURO VI and EURO V pollutant emissions legislation.

## Properties

•Excellent protection against wear and corrosion and optimal cleaning of the engine.
•A very stable lubricant in terms of oxidation, which allows long periods between changes.
•Compatible with exhaust after-treatment systems, which reduces maintenance costs and waste generation.
•Its optimized formula guarantees top performance for the requirements of Euro VI and Euro V engines at an affordable price.
•It can be used when CNG, LPG and biodiesel are used as fuels, following the recommended drain interval by the manufacturers.

## Quality levels, approvals and recommendations

- ACEA E6, E7, E8, E9, E11
- API CK-4/CI-4 PLUS
- CATERPILLAR CAT ECF-3
- CUMMINS CES 20086
- DAIMLER TRUCK DTFR 15C110*
- DETROIT DIESEL DFS 93K222*
- DEUTZ DQC IV-18 LA*
- MACK EOS-4.5*
- MB 228.51
- MTU Type 3.1*
- RENAULT RLD-3*
- VOLVO VDS-4.5*

*Formal approval

## Technical specifications

| | UNIT | METHOD | VALUE |
|---|---|---|---|
| SAE Grade | | | 5W-30 |
| Density at 15 °C | g/cm3 | ASTM D4052 | 0.852 |
| Kinematic viscosity at 40 °C | cSt | ASTM D445 | 71 |
| Kinematic viscosity at 100 °C | cSt | ASTM D445 | 12.35 |
| CCS Viscosity at -30 °C | cP | ASTM D5293 | ‹6,600 |
| Viscosity index | - | ASTM D2270 | 168 |
| Flash point, open cup | °C | ASTM D92 | ›215 |
| Pour point | °C | ASTM D97 | ‹-30 |
| Shearing Inj.Bosch: Vis 100 °C (30 cy) | cSt | CEC L-14-93 | ›9.3 |
| Sulphated ashes | % in weight | ASTM D874 | ‹1.0 |
| TBN | mg KOH/g | ASTM D2896 | 11 |

The above mentioned characteristics are typical values and should not be considered product specifications.