



GIANT 9660 LS-FE-LL 5W-30

Description

Synthetic lubricant oil with Mid Saps technology adapted to the needs of modern heavy vehicle engines. Its reduced ash content makes it suitable for engines equipped with particle filters. Its viscosity and special additives contribute to lower fuel consumption. This is a lubricant that is recommended for engines that comply with the EURO VI and EURO V regulations on pollutant emissions.

Properties

- Very long-lasting lubricating oil with post-treatment systems for exhaust gases that enable maintenance costs and waste generation to be reduced.
 - The Mid Saps technology (average ash) ensure performance and durability of modern engines equipped with particle filters by preventing premature obstruction of the latter.
 - It is suitable as a lubricant for EURO VI engines or earlier versions, due to its quality and performance level.
 - It can be used when using CNG, LPG and biodiesel as fuel, in accordance with the manufacturer-recommended changes.
 - Results show fuel savings of over 450 litres/year compared to other 10W40 oils on the market (*)
- (*) Data obtained with an average estimate of a truck that travels 150,000 km/year.

Quality levels, approvals and recommendations

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|---------------------------------|--|
| • API: CK-4* | • DAIMLER TRUCK: DTFR 15C110* |
| • DAIMLER TRUCK: DTFR 15C120* | • DEUTZ: DQC IV-18 LA* |
| • JASO: DH-2* | • MACK: EOS-4.5* |
| • MAN: M 3677/M 3775/M 3777* | • MB: 228.51/228.52* |
| • MTU: Type 3.1* | • RENAULT: VI RLD-3* |
| • SCANIA: LDF-4* | • VOLVO: VDS-4.5* |
| • ACEA: E4, E6, E7, E8, E9, E11 | • CATERPILLAR: CAT ECF-3/ECF-2/ECF-1-a |
| • CUMMINS: CES 20081/20086 | • DAF: Extended Drain |
| • DTNA: DFS 93K222 | • For Iveco trucks requiring ACEA E6, E7, E9 |
| • MAN: M 3271-1/M 3477 | • RENAULT: RLD-2/RGD/RXD |
| • VOLVO: VDS-3/CNG | *Formal approval |



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Technical specifications

	UNIT	METHOD	VALUE
SAE Grade			5W-30
Density at 15 °C	g/cm3	ASTM D4052	0.855
Kinematic viscosity at 100 °C	cSt	ASTM D445	11.7
Kinematic viscosity at 40 °C	cSt	ASTM D445	68
CCS Viscosity at -30 °C	cP	ASTM D5293	<6,600
Viscosity index	-	ASTM D2270	164
Flash point, open cup	°C	ASTM D92	>215
Pour point	°C	ASTM D97	<-40
TBN	mg KOH/g	ASTM D2896	13
Shearing Inj.Bosch: Vis 100 °C (30 cy)	cSt	CEC L-14-93	>9.3
Sulphated ashes	% in weight	ASTM D874	0.9

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