

MANNOL®

HEAVY-DUTY DIESEL ENGINE OIL

TS-14 UHPD

Semi Synthetic

SAE 15W-40

API CK-4

ACEA E11-22

JASO DH-2



20 L · 208 L · 1000 L

DESCRIPTION

All-weather semi-synthetic motor oil for heavy-duty and high-speed diesel engines with and without turbocharger, operating in difficult conditions.

The oil has successfully passed road and laboratory tests at CUMMINS, DETROIT DIESEL, and VOLVO centres and has their written approvals.

PRODUCT PROPERTIES

- | | |
|---|--|
| <p>01 An innovative additive package in combination with the highest quality synthetic base, featuring optimal viscosity in a wide temperature range, provides excellent anti-friction, anti-wear and anti-scutting properties, which significantly extend the life of equipment in all, even the most extreme, operating modes in a wide range of ambient temperatures and provides significant fuel savings;</p> | <p>02 Phenol and amine antioxidants in combination with a synthetic base provide increased thermal oxidative stability to the oil, which, in combination with excellent detergent-dispersant properties and low ash content, effectively reduces scaling and varnish formation, prevents deposits of all kinds and maintains engine parts in perfectly clean condition throughout the entire interval between replacements;</p> |
| <p>03 A unique synthetic formulation provides increased oil resistance to aging, and due to the reduced evaporation and high flash point, it reduces oil scaling "waste", which enables it to be used in engines with a long like interval and conventional motors;</p> | <p>04 Due to the synthetic base, the optimal viscosity has excellent low-temperature properties, including a low pour point, along with good oil pumpability and crankability of engine components at low temperatures, easy "cold start" (up to -30 °C) and reduced startup wear;</p> |
| <p>05 Compatible with all exhaust gas after-treatment systems: DPF, TWC, EGR and SCR thanks to the use of Low SAPS technology;</p> | <p>06 Effectively protects engine parts from all types of corrosion;</p> |
| <p>07 Lower foam formation;</p> | <p>08 Effectively deals with the increase in shear stress during operation caused by elevated viscosity due to soot dispersion;</p> |
| <p>09 Suitable for engines using fuelled by natural gas (LNG) and petroleum (LPG) gas.</p> | |

APPLICATIONS

Designed for all types of heavy duty diesel motors (long distance trucks, buses, etc.), off-road machinery (construction, mining, agricultural) and special equipment from European, American and Asian manufacturers that meet the requirements of Euro I – V where a performance level of CK-4 or lower is required. Can be used in gasoline engines where API SN or lower performance is required.

* COMPLY WITH THE MANUFACTURER'S INSTRUCTIONS PROVIDED IN THE USER'S MANUAL.

SPECIFICATIONS

SPECIFICATION	VALUE
SAE	15W-40
API	CK-4
ACEA	E11-22
ACEA	E7-22
ACEA	E9-16
JASO	DH-2
MB	228.31
CATERPILLAR	ECF-3
CUMMINS	CES 20086
MAN	M 3775
DETROIT DIESEL	DDC 93K223

CODES & AVAILABLE PRESENTATIONS

MN7114-20

MANNOL TS-14 UHPD SAE 15W-40 API CK-4

20 L

MN7114-DR

MANNOL TS-14 UHPD SAE 15W-40 API CK-4

208 L DRUM

MN7114-IBC

MANNOL TS-14 UHPD SAE 15W-40 API CK-4

1000 L IBC

APPROVAL

MACK

EOS-4.5

RENAULT

RLD-3

VOLVO

VDS-4.5



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GOT QUESTIONS?

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