

ADVANTAGES

XADO Atomic oil 10W-40 Diesel Truck is a multigrade semi-synthetic oil of the highest class for diesel engines of heavy haulers. It is created on the base oil by hydrocracking synthesis technology with a very high viscosity index, and supplemented with a package of active additives developed for diesel engines operating under much stress. Its characteristics exceed the requirements of the strictest European specifications ACEA E4 and requirements of the leading automobile manufacturers MB 229.5, VDS-2, and MAN 3277 to oils for Ultra High Performance Diesel engines (UHPD).

Engine resource, reliability, and power are always on a high level due to the patented formula of the atomic revitalizant, which is a part of the composition of the XADO Atomic oil. The use of the revitalizant is acknowledged to be a groundbreaking direction in saving energy and resources and is confirmed by certified tests in 35 countries of the world.

ADDITIONAL ADVANTAGES

- Provides reliable operation of engines for heavy haulers in all the regimes of operation, including regimes of maximum speeds and stresses, as well as during long trips.
- Particularly recommended for vehicles specialized in international hauling, viz. national buses and prime movers.
- Possesses unique performances and provides significantly prolonged drain intervals (over 120,000 km).
- High total base number (TBN>15.0) provides a reliable protection of the engine even if using the fuel with high sulfur content.
- Keeps the engine in ideal condition and significantly decreases maintenance costs.
- Provides full fuel combustion significantly reducing harmful exhausts into the atmosphere.
- Due to the revitalizant, it provides exclusive wear protection of the engine and turbo, as well as the cylinder walls from "polishing", prolonging the service life by 2-3 times.

STANDARDS

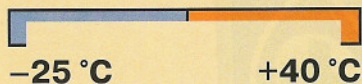
XADO Atomic oil 10W-40 Diesel Truck exceeds the requirements of the strictest European specification ACEA E4 to oils for Ultra High Performance Diesel engines (UHPD) and is recommended to be used in Euro-3 engines (increasing the environmental safety).

BASE



The base oil for XADO Atomic oil 10W-40 Diesel Truck is based on the high-quality hydrocarbons of the oil from the North Sea shelf by the hydrocracking synthesis technology (HC).

TEMPERATURE RANGE FOR APPLICATION



SPECIFICATIONS

SAE 10W-40
API CF
ACEA E4

OEM LEVEL

MB 228.5
Volvo VDS-2
Scania Long drain
MAN 3277
Renault (RVI) D5R
MTU Type 3

TECHNICAL INFORMATION

| | |
|---|-------|
| Density at 20 °C, kg/l | 0.873 |
| Viscosity at 100 °C, mm ² /s | 14.1 |
| Viscosity at 40 °C, mm ² /s | 90 |
| Viscosity at -20 °C, mPa s | 7,000 |
| Viscosity index | 150 |
| Flash point, °C | 220 |
| Pour point, °C | <-36 |
| Easy start temperature, °C | -25 |
| Sulfated ash level, mass. % | 1.8 |
| Total base number, mgKOH/g | 15.4 |

Note. Typical figures are presented.

PERMIT INFORMATION MB 228.5

World-renowned automobile concern Mercedes-Benz is a recognized global leader in manufacturing of heavy haulers with prolonged drain intervals.

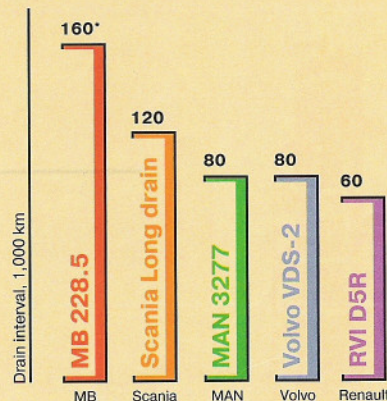
In 1996, MB designers developed and introduced specifications for oils MB 228.5 particularly for perspective Ultra High Performance Diesel engines (UHPD). Oils meeting this specification differ by stronger adhesiveness and resistance to shear deformation at high temperatures what allows them to resist successfully such problems as "polishing" (wear) of the cylinder walls.

High stability to oxidation and excellent detergent-dispersing oil properties are proved by special motor tests. These qualities keep engine clean and ensure ideal mobility of rings.

Oils of this specification are notable for minimum waste consumption which is particularly important for heavy haulers who drive lots of miles. However, the main advantage of MB 228.5 oils is the fact that these oils are for extremely long drain intervals up to 100,000 km or even 160,000 km (for engines with additional filtration system!)

REFERENCE DATA

XADO Atomic oil 10W-40 Diesel Truck. Maximum drain intervals in engines of heavy haulers (based on manufacturer's recommendations)



* when using additional filtration system

XADO Atomic oil 10W-40 Diesel Truck provides maximum possible drain intervals.

