

# HELIOS XHD

## TRUCK ENGINE OIL

### Description

This "Super High Performance Diesel" oil has been developed in cooperation with leading truck manufacturers like MB, MAN, VOLVO, Mack ao. for the lubrication of their latest turbo charged (after cooled) diesel engines. The oil is also well suited for use in petrol engines.

### Benefits

Excellent protection against bore polishing. High TBN to counteract corrosion by sulphuric products originating from diesel fuel. Keeps deposit- and sludge formation to an absolute minimum allowing drain intervals up to 45.000 km.



### Performance levels

- API CH-4/CG-4/CF-4/CF/SL
- ACEA E3, A3/B4
- MB 228.1/229.1
- Volvo VDS
- Renault RD
- MAN M271
- Mack EO/M
- ALLISON C-4
- MTU TYPE 1
- DDC Oil Category 1
- ZF TE-ML 02C/03A/04B/04C/07C
- CAT ECF-1

### Typical Properties

SAE		15W/40	20W/50
Density 15 °C	kg/m <sup>3</sup>	882	888
Viscosity 40 °C	cSt	102.3	171.0
Viscosity 100 °C	cSt	13.7	19.0
Viscosity CCS -25 °C	cP	<7000	<9500
Viscosity Index		134	125
Pour Point	°C	-27	-24
Flash Point C.O.C.	°C	210	220
TBN	mg (KOH/g)	8.7	8.7
Sulphated Ash	%wt	1.20	1.20
Operating Temperature	°C	-25/150	-20/150