

# 15W-40 E9 HD Pro

## Description and Properties:

**15W-40 E9 HD Pro** is an ultra high performance heavy duty engine oil. It is made from semi synthetic base oils with high VI and advanced additive packages, which care for excellent dispersant and detergent properties and oxidation protection of the oil and secure the engine from wear and corrosion.

### 15W-40 E9 HD Pro is

- recommended for four-stroke naturally aspirated, turbocharged, and supercharged diesel engines and may also be used in four-stroke gasoline engines.
- ideal for mixed commercial fleets, farm machinery, construction equipment, marine, and other off-highway applications.
- foreseen for diesel engines meeting Euro IV and Euro V emission requirements and running under severe conditions, such as extended oil drain intervals.
- recommended for engines with particulate filters, and suitable for such without DPF, and for most EGR engines, as well as most engines fitted with SCR NOx reduction systems.

## Specification / Recommendations:

ACEA E9-12/E7-12	Deutz DQC-III-10 LA	Renault VI RLD-3
API CJ-4/CI-4/CI-4 Plus/SN	MACK EO-O Premium Plus	Volvo VDS-4
Catepillar ECF-3 / ECF-2 / ECF-1a	MAN M 3275 / M 3575	Ford WSS-M2C171-E
Cummins CES 20081	MB 228.31	JDQ-78X
Detroit Diesel93K218	MTU Typ 2.1	

## Typical Values:

15W-40 E9 HD Pro	Unit	Value	Method
Density at 15°C	kg/m <sup>3</sup>	869	DIN 51 757
Viscosity at 40°C	mm <sup>2</sup> /s	116	DIN 51 562
Viscosity at 100°C	mm <sup>2</sup> /s	15,4	DIN 51 562
Viscosity Index		140	DIN ISO 2909
CCS at -20°C	mPa.s	4920	DIN 51 377
Pourpoint	°C	-36	DIN ISO 3016
Flashpoint	°C	234	DIN ISO 2592
TBN	mg KOH/g	9,1	DIN ISO 3771
Sulphated ash	mass. %	094	DIN 51 575
Sulphur	mass. %	0,40	-
Phosphorus	mass. %	0,12	-

*Specification variations in these characteristics may occur. The instructions of manufacturer must be regarded.  
Further information available by MSDS.*

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