

# 10W-40 E7 HD Pro

## Description and Properties:

**10W-40 E7 HD Pro** is produced from mineral base oils and hydro-cracked products. Combined with a special additive package it has become a quality product, which satisfies the requirements of the modern engine generation of diesel motors and gasoline motors as well. Especially it is applicable for engines, which because of the advanced construction, as turbocharger or poor-mix operation, make very special demands on the lubricant.

**10W-40 E7 HD Pro** gives following advantages:

- trouble-free operation even under extreme operating conditions
- oxidation stability, which reduces early oil aging even at high temperatures
- outstanding wear protection, which assures a long engine-life
- allows maximal oil drain intervals, like specified by the manufacturer

## Specifications / Recommendations / Approvals:

ACEA E7	Mack EO-M Plus & EO-N	<b>MB-Approval 228.3</b>
API CI-4 / CF / SL	MAN M 3275	
Caterpillar ECF-1a & ECF-2	MTU Type 2	
Cummins CES 20077 / 20078	Renault RLD1 / RLD2	
DDC 93K215	VOLVO VDS-3	
Global DHD-1	DEUTZ DQC III-10	
Jaso DH-1		

## Typical Values:

10W-40 E7 HD Pro	Unit	Value	Method
Density at 15°C	kg/m <sup>3</sup>	864	DIN 51 757
Viscosity at 40°C	mm <sup>2</sup> /s	99,6	DIN 51 562
Viscosity at 100°C	mm <sup>2</sup> /s	14,6	DIN 51 562
Viscosity Index		152	DIN ISO 2909
CCS at -25°C	mPa.s	6110	DIN 51 377
Pourpoint	°C	-42	DIN ISO 3016
Flashpoint	°C	234	DIN ISO 2592
TBN	mg KOH/g	10,8	DIN ISO 3771

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

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