

# Challenger 15W-40

Challenger 15W-40 is a high-performance engine oil specialized for performance in diesel engines. The use of advanced additive packages in combination with high-performance base oils provides extended engine life with excellent properties regarding viscosity, soot and sludge build-up, corrosion as well as a very high thermal- and oxidation stability.



## Properties

- + High efficiency and lowered emissions
- + High thermal, oxidation and shear stability
- + Reduced sludge and deposit build-up
- + Excellent wear protection and viscosity control even in cold temperatures
- + High dispersion and detergency level
- + Cleaner engines with extended engine life
- + Excellent low temperature properties

## Specifications

API CI-4 Plus  
 MAN 271/ M 3275  
 ACEA E7/E9  
 Volvo VDS-3  
 Allison C3/C4/TO-2  
 JASO DH-1  
 MTU Category Type II  
 Caterpillar ECF-3/ECF-2/S-3/TO-2  
 MB 228.3/228.5  
 Cummins CES 20071, 20076, 20077, 20078

## Table of properties

Property	Test Method	Unit	Value
Density 15°C	ASTM D 4052	g/ml	0.870
Kinematic Viscosity @ 40°C	ASTM D 445	cSt	109.04
Kinematic Viscosity @ 100°C	ASTM D 445	cSt	15.62
Viscosity Index	ASTM 2270	None	151.87
Viscosity at -20°C (CCS)	ASTM D 5293	mPas	≤ 7000
Total Acid Number TBN	ASTM 2896	mg KOH/g	13
Pour Point °C	ASTM D 97	°C	-28
Flash Point °C	ASTM D 92	°C	228

\* Characteristic values can fluctuate within the normal range. The information in this publication is based on our current knowledge and experience. They do not release the user from their own tests and trials due to possible influences during the processing and application of our products. A legally binding assurance of certain properties or the suitability for a specific application cannot be derived from our information. It is the responsibility of the recipient of our products to observe any property rights as well as existing laws and regulations.

