

Challenger^{Plus} 20W-50

Challenger Plus 20W-50 CI-4+/SL is an ideal mixed fleet engine oil with high performance requirements in tough conditions. Optimal for use in high load, high pressure vehicles both on and off the highway with enhanced high temperature controls. Can be used in high performance gasoline engines as well as light duty diesel cars, vans and buses.



Properties

- + Excellent soot control and therefore longer drain intervals
- + Prolonged engine life
- + Excellent shear stability
- + Excellent detergency and dispersancy thus preventing the formation of deposits and sludge build up
- + Improved low temperature sludge control in stop and-go service

Specifications

API CI-4 Plus/SL	ACEA E7/E9
Scania LDF, LDF-2	Allison C4
Volvo VDS-4	DAF
MAN 271, M 3275	IVECO
MTU Category Type II	JASO DH-1/DH-2
Renault RLD-3	Navistar
Cummins CES 20081	MIL-PRF-2104H
Mack EO-O Premium Plus-07	Deutz Category 1
MB 228.3, 228.31, 228.5, 229.1, 229.5	
Caterpillar ECF-1a, ECF-2, ECF-3	
Detroit Diesel 93K218, 7SE-270, 2000/4000	
Global Specification DHD-1	

Table of properties

Property	Test Method	Unit	Value
Density 15°C	ASTM D 1298		0.889
Kinematic Viscosity @ 40°C	ASTM D 445	mm ² /s	150.5
Kinematic Viscosity @ 100°C	ASTM D 445	mm ² /s	17.75
Viscosity Index	ASTM D 2270		130
Viscosity at -15°C (CCS)		mPas	≤ 8500
TBN	ASTM D 2896	mg KOH/g	10
Pour Point °C	ASTM D 97		-27
Flash Point °C	ASTM D 92		240

* 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.

