

# Challenger 15W-40

Challenger 15W-40 CF-4 is recommended for diesel engines for both turbocharged and normally aspirated engines operating under severe service conditions both on and off the highway all year round. The innovative formulation ensures optimum wear protection to maintain engine life for guaranteed high performance in the toughest conditions.



## Properties

- + Excellent wear protection
- + Improved fuel economy
- + Reduced oil consumption at high operating engine temperatures
- + Excellent oxidation and thermal stability to prevent sludge buildup

## Specifications

API CF-4

## 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.

