

# Product Information

## COFRAN CHALLENGER MAJOR SAE 15W-40

**Ultra High Performance engine oil for a variety of diesel and petrol engines. Specially for highly loaded commercial vehicle diesel engines. Low oil consumption.**

### Description

COFRAN CHALLENGER MAJOR SAE 15W-40 is an all-season SHPD engine oil for diesel engines with and without turbocharging in commercial vehicles that have high demands with regard to engine cleanliness and maintenance intervals. Thanks to its special design COFRAN CHALLENGER MAJOR SAE 15W-40 meets or exceeds the requirements of American and European engine manufacturers. The unique, thermally stable formulation of these lubricants ensures superior protection and performance in all climates. COFRAN CHALLENGER MAJOR SAE 15W-40 is a more modern High Performance engine oil than the usual Heavy Duty engine oils of the same SAE class.

### Application

COFRAN CHALLENGER MAJOR SAE 15W-40 is applicable in many applications in light and heavy-duty vehicles. COFRAN CHALLENGER MAJOR SAE 15W-40 can be used even with higher sulphur content in the diesel fuel, while using the usual HD engine oils this can often lead to considerable problems. COFRAN CHALLENGER MAJOR SAE 15W-40 is best suitable for use in Euro III engines.

COFRAN CHALLENGER MAJOR SAE 15W-40 is miscible and compatible with conventional, branded engine oils. However, mixing with other engine oils should be avoided in order to fully exhaust this product's benefits. A complete oil drain is recommended when converting to COFRAN CHALLENGER MAJOR SAE 15W-40. For

information on product safety and proper disposal please refer to the latest Material Safety Data Sheet.

### Advantages

- Very good wear protection.
- Stable lubricating film even with very hot oil and/or very high loads.
- Protection against corrosion even when diesel fuel with a higher sulphur content is used.
- Protection against sludge formation.

### Specifications

- ACEA E7
- API SL

### Recommendations

- DTFR 15B110
- MB 228.3
- RENAULT RLD/RLD-2
- VOLVO VDS-3



# Product Information

## TYPICAL CHARACTERISTICS

|                              |             |                          |
|------------------------------|-------------|--------------------------|
| SAE class                    | SAE J300    | 15W-40                   |
| Density at 15°C              | DIN 51757   | 0.879 g/ml               |
| Kinematic Viscosity at 40°C  | ASTM D 445  | 114.9 mm <sup>2</sup> /s |
| Kinematic Viscosity at 100°C | ASTM D 445  | 14.9 mm <sup>2</sup> /s  |
| Viscosity Index              | ASTM D 2270 | 135                      |
| HTHS                         | CEC L-36-90 | ≥ 3.5 mPa.s              |
| Pour point                   | ASTM D 7346 | -33 °C                   |
| Sulphate ash                 | ASTM D 874  | ≤ 2.0 %m/m               |
| Product coloring             | DIN 10964   | None                     |



## Product Information

In all cases, to limit the risk of water contamination (including condensation), store drums and barrels horizontally. Do not expose packaging to strong sunlight or extreme temperatures. The information contained in this data sheet is based on FLF's experience and know-how in the development and manufacture of lubricants and other chemical products to the best of our knowledge. All chemical products must be used in the intended application and in accordance with the recommendations provided in the Material Safety Data Sheet (MSDS). The performance of our products can be influenced by a range of factors, including conditions of use, application methods, operating environment, pre-treatment of components, possible external contamination, etc. For these reasons, a universal recommendation of our products is impossible. The information given in the data sheet represents general, non-binding guidelines and is provided for guidance only. No warranty, express or implied, is given concerning the properties of the product or its suitability for a given application. We therefore recommend consulting an application engineer to discuss application conditions and product performance criteria prior to use. It is the user's responsibility to test the functional suitability of the product and to use it under the appropriate safety conditions. Our products are subject to continuous improvement, with the aim of enhancing performance or bringing them into line with any new regulations. We reserve the right to modify our product ranges, our products and their manufacturing processes, as well as all the provisions of our publications, at any time and without prior notice. This data sheet cancels and replaces all previous editions. We expressly draw the attention of all users to the fact that our product has not been designed and tested for use in the nuclear and aeronautical fields ("embedded" product). Any use of our product in the aforementioned sectors is the sole responsibility of the user. Reproduction in any form requires the prior written consent of FLF, all rights reserved.