Rubia Optima 4100 XFE 5W-30

Diesel engine oil

KEY DATA



Fully Synthetic Low SAPS lubricant for diesel engines, suitable for on-road heavy duty applications with Fuel Economy technology based on the latest API FA-4 specification.

INTERNATIONAL STANDARDS

- API FA-4
- ACEA F01

MANUFACTURER APPROVALS

- Volvo VDS-5
- Renault Trucks RLD-5
- Mack EO-S 5
- DTFR 15C130
- Cummins CES 20087

TECHNOLOGY

Inno-Boost technology

Ready for the next chapter of engine technology.

With the Inno-Boost Technology, formulations incorporate the right combination of strong anti-oxidant molecules. These active molecules inhibit radical formation and keep the hydrocarbon chains intact. As a result, the engine oil viscosity remains stable and keeps its properties for longer time.

APPLICATIONS

Rubia Optima 4100 XFE 5W-30 is developed for the **newest on-road diesel engines according to OEM recommendations.**

Due to its low High Temperature High Shear (HTHS) viscosity, Rubia Optima 4100 XFE 5W-30 may not be suitable for older engines, so please consult the OEM.

With its "**Low SAPS**" (low sulphated ash, phosphorus and sulphur) technology, Rubia Optima 4100 XFE 5W-30 **protects engines equipped with any kind of post-treatment systems, such as diesel particulate filters (DPFs)**.

PERFORMANCES & CUSTOMER BENEFITS

- Rubia Optima 4100 XFE 5W-30 provides exceptional fuel economy benefits, Rubia Optima 4100 XFE 5W-30, **with its low High Temperature High Shear (HTHS) viscosity, is specially formulated to maximize fuel economy properties without compromising on the engine protection**.
- Rubia Optima 4100 XFE 5W-30 is **formulated with excellent shear and oxidation stability and designed to control aeration exceptionally**, **High quality base stocks combined with high-performance additives make Rubia Optima 4100 XFE 5W-30 an exceptionally high performance engine oil**.
- **Advanced additives keep the engine's most sensitive parts clean** thanks to detergent, dispersant and anti-wear properties, added to effective control of soot, sludge and deposits.

CHARACTERISTICS*

TEST	UNIT	TEST METHOD	RESULT
Density at 15 °C	kg/m^3	ASTM D1298	860
Kinematic viscosity at 40°C	mm²/s	ASTM D445	58
Kinematic viscosity at 100°C	mm²/s	ASTM D445	10
Viscosity index	-	ASTM D2270	162
Pour point	°C	ASTM D97	-36
Flash Point	°C	ASTM D92	236
T.B.N	mg KOH/g	ASTM D2896	10.4
Sulphated Ash	% m/m	ASTM D874	1.0

* The characteristics given above are obtained with a standard tolerance threshold during production and may not be considered specifications.

RECOMMENDATIONS FOR USE

Before using the product, the vehicle's maintenance guide should be checked. Oil changes should be carried out in accordance with the manufacturer's recommendations.

The product should not be stored at temperatures over 60°C. It should be kept away from sunlight, intense cold and extreme temperature fluctuations. If possible, the packaging should not be exposed to the elements. Otherwise, the drums should be laid horizontally in order to avoid any contamination from water and to prevent the product's label from rubbing off.

HEALTH, SAFETY AND THE ENVIRONMENT

Based on the toxicological information available, this product should not cause any adverse health effects, provided it is used for its intended purpose and in accordance with the recommendations laid out in the Safety Data Sheet (SDS).

This can be obtained on request from your local reseller and is available for consultation at https://ms-sds.totalenergies.com.

This product should not be used for any purposes other than the ones for which it is intended.

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Some variations can be expected under normal production conditions, but these should not affect the product's expected performance irrespective of the site. The information contained in this document is subject to change without notice. Our products can be viewed on our website at www.lubricants.totalenergies.com.