

RUBIA OPTIMA 4100 XFE 5W-30

DIESEL ENGINE OIL

KEY DATA



SPECIFICATIONS AND APPROVALS

International Specifications:

API FA-4

Manufacturers' Approvals:

- ✓ Volvo VDS-5
- ✓ Renault Trucks RLD-5
- ✓ Mack EO-S5
- ✓ MB-Approval 228.61

TECHNOLOGY

Inno-Boost technology

Ready for the next chapter of engine technology.

With the Inno-Boost Technology, formulations incorporate 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

TOTAL 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**, TOTAL 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, TOTAL RUBIA OPTIMA 4100 XFE 5W-30 protects engines equipped with any kind of **post-treatment systems**, such as diesel particulate filters (DPFs).

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PERFORMANCES AND CUSTOMER BENEFITS

TOTAL RUBIA OPTIMA 4100 XFE 5W-30 **provides exceptional fuel economy benefits**. TOTAL 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. TOTAL 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 TOTAL 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

PHYSICAL AND CHEMICAL CHARACTERISTICS *

TEST	UNIT	TEST METHOD	VALUE
Density at 15 °C	kg/m ³	ASTM D1298	860
Kinematic Viscosity at 40 °C	mm ² /s	ASTM D445	58
Kinematic Viscosity at 100 °C	mm ² /s	ASTM D445	10
Viscosity Index	-	ASTM D2270	162
Flash Point	°C	ASTM D92	236
Pour Point	°C	ASTM D97	-36
T.B.N	mgKOH/g	ASTM D2896	10.4
Sulphated Ash	% m/m	ASTM D874	1.0

* The features mentioned above are average values obtained with some variability in production and do not constitute a specification.

RECOMMENDATIONS FOR USE

Before using the product, it is important to check the service manual of the vehicle: the drain is carried out according to the manufacturer's requirements. The product should not be stored at a temperature above 60 °C. Exposure to strong sunlight, extreme cold or high temperature variations must be avoided. All packages should be protected from bad weather conditions. The drums should be stored horizontally to avoid a possible contamination by water and the damage of the product label.

HEALTH, SAFETY AND THE ENVIRONMENT

Based on available information, this product does not cause adverse health effects when used in the intended application and the recommendations provided in the Safety Data Sheet (MSDS) are followed. It is accessible on request from your local dealer or on the website <http://sdstotalms.total.com>. This product should not be used for applications other than those for which it is intended. If disposing of used product, take care to protect the environment and comply with local regulations.