



RUBIA OPTIMA 4100 XFE 5W-30



Fully Synthetic low-SAPS lubricant suitable for Volvo D13K5 Euro VI Step D engines, with Fuel Economy technology based on the latest API FA-4 specification.

SPECIFICATIONS AND APPROVALS

International specifications

API FA-4

APPLICATIONS

TOTAL RUBIA OPTIMA 4100 XFE 5W-30 is specially developed for **the Volvo D13K5 Euro VI Step D engines**.

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).

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 stability**, thus maintaining its viscosity in highly loaded contacts and strong engine protection under severe conditions.

TOTAL RUBIA OPTIMA 4100 XFE 5W-30 has **improved oxidation stability** that disrupts oxidation reactions, prevents formation of harmful sludge and protects hotter engines.

TOTAL RUBIA OPTIMA 4100 XFE 5W-30 is designed to **control aeration exceptionally**, which is important in cooling and protecting engines at higher temperatures and pressures.

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

The advanced "**low-SAPS**" formulation of TOTAL RUBIA OPTIMA 4100 XFE 5W-30 improves the post-treatment system durability, preventing the clogging of the diesel particulate filter (DPF).

PHYSICAL AND CHEMICAL CHARACTERISTICS*

TOTAL RUBIA OPTIMA 4100 XFE 5W-30		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	10.0
Viscosity Index	-	ASTM D2270	162
Flash point	°C	ASTM D92	236
Pour point	°C	ASTM D97	-36
T.B.N	mgKOH/g	ASTM D4739	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

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 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 www.quickfds.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.