RUBIA TIR 9900 FE 5W-30

Synthetic *premium* ***"low-SAPS"*** ***diesel****-engine oil, used in* ***on-road heavy-duty*** *applications, with* ***Fuel Economy*** *technology.*

SPECIFICATIONS AND APPROVALS

International specifications

ACEA E6/E9 **API CJ-4/CI-4/CH-4**

Manufacturers' approvals

- ✓ Cummins CES 20081
- ✓ Mack EO-O Premium Plus
- ✓ MAN M 3477/M 3677
- ✓ MB-Approval 228.51
- ✓ Renault Trucks RLD-3
- ✓ Volvo VDS-4

Meets the requirements of

- ✓ DAF
- ✓ IVECO

APPLICATIONS

TOTAL RUBIA TIR 9900 FE 5W-30 is a **synthetic** new generation lubricant suitable for use in **on-road diesel heavy-duty** applications.

With its **"low-SAPS"** (low sulphated ash, phosphorus and sulphur) technology, TOTAL RUBIA TIR 9900 FE 5W-30 is specifically adapted to the latest generation of diesel engines equipped with **post-treatment systems,** such as diesel particulate filters (DPFs).

Especially suitable for **most Euro 6 vehicle manufacturers**, TOTAL RUBIA TIR 9900 FE 5W-30 enables coverage of a fleet of mixed brands with a minimal number of products.

TOTAL RUBIA TIR 9900 FE 5W-30 also has the latest **MAN** approval **M 3677**. This lubricant is adapted to latest IVECO engines as well.

PERFORMANCES AND CUSTOMER BENEFITS

Due to high quality synthetic base stocks, added to high-performance additives, TOTAL RUBIA TIR 9900 FE 5W-30 exhibits **exceptional performances**.
Its fully synthetic composition allows **excellent thermal stability**, and **easier cold start**.

Detergent, antioxidant and anti-corrosion additives contained in TOTAL RUBIA TIR 9900 FE 5W-30 help to reach **extended oil drain intervals,** defined by most manufacturers, and reduce maintenance costs.

Outstanding **detergent, dispersant and anti-wear properties** keep the **engine clean** and enable effective control of soot, sludge and piston deposits.

Excellent piston cleanliness performance affords effective protection against bore polishing and cylinder wear.

The advanced **"low-SAPS"** formulation of TOTAL RUBIA TIR 9900 FE 5W-30 helps prevent the clogging of the diesel particulate filter (DPF) and extends the post-treatment system durability.

Its **Fuel Economy** technology helps save 1% fuel on average, compared to an SAE 40 grade reference lubricant. This value can reach 3% if used in combination with **Fuel Economy** transmission lubricants.

PHYSICAL AND CHEMICAL CHARACTERISTICS*

TOTAL RUBIA TIR 9900 FE 5W-30		Method	Value
Density at 15°C	kg/m^3	ASTM D1298	856
Kinematic Viscosity at 40°C	mm^2/s	ASTM D445	68
Kinematic Viscosity at 100°C	mm^2/s	ASTM D445	11.4
Viscosity Index	-	ASTM D2270	163
Flash point	°C	ASTM D92	230
Pour point	°C	ASTM D97	-48
T.B.N	mgKOH/g	ASTM D2896	10
Sulphated Ash	% m/m	ASTM D874	0.96

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

RECOMMENDED 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 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.