



# 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/E4/E7

API CJ-4/CI-4/CH-4

### Manufacturer’s approvals

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

### Meets the requirements of

- ✓ Cummins CES 20081
- ✓ IVECO
- ✓ DAF
- ✓ LIEBHERR T4F

## APPLICATIONS

TOTAL RUBIA TIR 9900 FE 5W-30 is a **synthetic** new generation lubricant suitable for use in all European **Euro 6 applications (DAF, Daimler, Iveco, MAN, Scania, Volvo)**. It is also compatible with certain gas engines.

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).

TOTAL RUBIA TIR 9900 FE 5W-30 is especially suitable for **IVECO Euro 6 vehicles** with **extended oil drain intervals as defined by the manufacturer** and has the latest approvals of **MAN M 3677** and **Scania LDF-4**, suitable for their Euro 6 engines.

## PERFORMANCES AND CUSTOMER BENEFITS

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

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 IVECO, 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 cylinder liner polishing.

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.

## PHYSICAL AND CHEMICAL CHARACTERISTICS\*

### TOTAL RUBIA TIR 9900 FE 5W-30

		Method	Value
Density at 15°C	kg/m <sup>3</sup>	ASTM D1298	861
Kinematic Viscosity at 40°C	mm <sup>2</sup> /s	ASTM D445	72.5
Kinematic Viscosity at 100°C	mm <sup>2</sup> /s	ASTM D445	12.2
Viscosity Index	-	ASTM D2270	166
Flash point	°C	ASTM D92	223
Pour point	°C	ASTM D97	-42
T.B.N	mgKOH/g	ASTM D2896	13
Sulphated Ash	% m/m	ASTM D874	0.95

\* 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](http://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.