

# RUBIA TIR 9900 FE 5W-30

DIESEL & GAS ENGINE OIL

## KEY DATA



### SPECIFICATIONS AND APPROVALS

#### International Specifications:

ACEA E4, E6, E7, E9

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

#### Manufacturers' Approvals:

- ✓ Mack EO-O Premium Plus
- ✓ MAN M 3477/M 3677/M 3271-1
- ✓ MB-Approval 228.51
- ✓ Renault Trucks RLD-3
- ✓ Scania LDF-4
- ✓ Volvo VDS-4

#### Meets the Requirements of:

- ✓ DAF
- ✓ Iveco TLS E6
- ✓ Cummins CES 20081
- ✓ Ford WSS-M2C213-A1

## TECHNOLOGY

### Pro-Efficient technology

Protection approved by professionals, for maximum efficiency.

The Pro-Efficient Technology protects and improves the efficiency of professional engines by ensuring reduced mechanical wear and extended oil drain intervals. Meaning longer engine life, less breakdowns and reduced maintenance costs.



## 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.

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## PERFORMANCES AND CUSTOMER BENEFITS

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

TOTAL RUBIA TIR 9900 FE 5W-30 exhibits **exceptional thermal stability**, enable **easier cold start** and help to reach **extended oil drain intervals**.

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 \*

TEST	UNIT	TEST 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 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.