



# RUBIA TIR 9200 FE 5W-30



**Synthetic** lubricant for **diesel** engines, suitable for **on-road heavy-duty** applications, with **FUEL ECONOMY** technology.

## SPECIFICATIONS AND APPROVALS

### International specifications

ACEA E4/E7

API CF

### Manufacturers' approvals

- ✓ Cummins CES 20076/20077
- ✓ Mack EO-N
- ✓ MAN M 3277
- ✓ MB-Approval 228.5
- ✓ Renault Trucks RLD-2
- ✓ Volvo VDS-3
- ✓ VOITH Class B

### Meets the requirements of

- ✓ DAF
- ✓ IVECO

## APPLICATIONS

TOTAL RUBIA TIR 9200 FE 5W-30 is a **synthetic** high-performance lubricant used in **on-road diesel heavy-duty** applications.

TOTAL RUBIA TIR 9200 FE 5W-30 is recommended for **Euro 5** and previous engine models with approvals of **most manufacturers**. It is also suitable for Euro 5 **IVECO** engines with extended oil drain intervals (up to 150 000 km).

## PERFORMANCES AND CUSTOMER BENEFITS

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.

TOTAL RUBIA TIR 9200 FE 5W-30 combines synthetic base stocks that confer effective **thermal stability** with **easier cold start**.

**Excellent detergent, antioxidant and anti-corrosion** additives help to reach **extended oil drain intervals**, defined by manufacturers (such as **IVECO, MAN** and **Mercedes-Benz**) and reduce maintenance costs.

TOTAL RUBIA TIR 9200 FE 5W-30 exhibits a **very high T.B.N level** (16 mgKOH/g) to neutralize acid compounds and prevent their corrosive attack.

Outstanding **detergent, dispersant and anti-wear properties** keep the **engine's most sensitive parts clean** and afford efficient protection against cylinder liner polishing.

## PHYSICAL AND CHEMICAL CHARACTERISTICS\*

### TOTAL RUBIA TIR 9200 FE 5W-30

		Method	Value
Density at 15°C	kg/m <sup>3</sup>	ASTM D1298	860
Kinematic Viscosity at 40°C	mm <sup>2</sup> /s	ASTM D445	72.4
Kinematic Viscosity at 100°C	mm <sup>2</sup> /s	ASTM D445	12
Viscosity Index	-	ASTM D2270	158
Flash point	°C	ASTM D92	220
Pour point	°C	ASTM D97	-45
T.B.N	mgKOH/g	ASTM D2896	16
Sulphated Ash	% m/m	ASTM D874	1.9

\* 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.