



TRANSMISSION GEAR 9 FE 75W-80

Transmission Oil

KEY DATA

**VERY HIGH PERFORMANCE LUBRICANT
FOR HEAVY DUTY MANUAL AND
AUTOMATED TRANSMISSIONS**

SAE 75W-80

INTERNATIONAL STANDARDS

✓ API GL-4

MANUFACTURER APPROVALS

- ✓ ZF TE-ML 01E / 02E / 16P
- ✓ VOITH CLASS B
- ✓ VOLVO 97307
- ✓ MAN 341 type Z-5
- ✓ MB-Approval 235.28

APPLICATIONS

TOTAL TRANSMISSION GEAR 9 FE 75W-80 is **synthetic based lubricant for manual and automated gearboxes**, whether synchronized or non- synchronized, running under the most severe conditions of load, speed and temperature.

TOTAL TRANSMISSION GEAR 9 FE 75W-80 is specifically developed for **all gearboxes with or without Intarder** (for example for the ZF gearboxes with an integrated retarder medium and heavy duty ZF gearboxes (ZF Intarder). Extensive bench and field testing have been performed successfully, including on the most recent models of gearboxes.

TOTAL TRANSMISSION GEAR 9 FE 75W-80 is a lubricant **with specification VOLVO 97307 and VOITH Class B**, for all applications on manual and automated gearboxes and can be recommended for any application requiring an API GL-4 level of performance.

TOTAL TRANSMISSION GEAR 9 FE 75W-80 is **particularly suitable for extended drain intervals** (up to 540 000km), on transmissions of commercial vehicles from Renault Trucks, DAF, MAN, Iveco and for all commercial vehicles equipped with ZF manual and automated gearboxes.

TOTAL TRANSMISSION GEAR 9 FE 75W-80 is particularly suitable for **latest generation gearboxes with carbon synchronization** with specification ZF TE-ML 01E. For **Gearboxes with Molybdène synchronisation**, the specification ZF TE-ML 02E allows to increase the durability (and maintenance intervals).

TOTAL TRANSMISSION GEAR 9 FE 75W-80 is particularly suitable **for the most severe conditions of load** like public works, heavy duty transport, etc.

CUSTOMER BENEFITS

- **Reduced fuel consumption** in comparison with standard lubricants due to TOTAL's Fuel Economy technology.
- **Reduced cost of maintenance:** specially formulated to reach extended drain intervals recommended by the manufacturer.
- **Excellent protection of gearboxes** against wear and corrosion due to extreme-pressure properties of oil.
- **Improved driver start up experience:** low temperature fluidity due to a high viscosity index, generating benefits during cold starts and limiting drag losses and fuel consumption.
- **Excellent stability in operation** due to high viscosity index
- **High compatibility with oil filters** due to antifoam properties
- **Improved gear engagement:** gear shiftability with a variety of synchroniser materials such as sinter, molybdenum and carbon.
- **Supports rationalisation** of products (ZF, VOITH, VOLVO, MAN, MERCEDES BENZ)

CHARACTERISTICS*

Test	Unit	Test method	Result
Volumetric mass at 15°C	kg/m ³	DIN 51757 D	858
Viscosity at 40°C	mm ² /s	ASTM D445	54
Viscosity at 100°C	mm ² /s	ASTM D445	9.35
Viscosity index	-	ASTM D2270	157
Flash point	°C	ASTM D92	240
Pour point	°C	ASTM D97	-42
Viscosity Brookfield at -40°C	mPa.s	ASTM D-2983	42 400

* The characteristics given above are obtained with a standard tolerance threshold during production and may not be considered specifications.

RECOMMENDATIONS FOR USE

Before using the product, the vehicle's maintenance guide should be checked. Oil changes should be carried out in accordance with the manufacturer's recommendations.

The product should not be stored at temperatures over 60°C. It should be kept away from sunlight, intense cold and extreme temperature fluctuations.

If possible, the packaging should not be exposed to the elements. Otherwise, the drums should be laid horizontally in order to avoid any contamination from water and to prevent the product's label from rubbing off.

HEALTH, SAFETY AND THE ENVIRONMENT

Based on the toxicological information available, this product should not cause any adverse health effects, provided it is used for its intended purpose and in accordance with the recommendations laid out in the Safety Data Sheet. This can be obtained on request from your local reseller and is available for consultation at www.quickfds.fr.

This product should not be used for any purposes other than the ones for which it is intended.

When disposing of the product after use, please protect the environment and comply with local regulations.

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