



# TRANSMISSION DUAL 9 FE 75W-90

Transmission Oil

## KEY DATA

**HIGH PERFORMANCE SYNTHETIC OIL FOR GEARS**

**SAE 75W-90**

### INTERNATIONAL STANDARDS

- ✓ API GL-4
- ✓ API GL-5
- ✓ API MT-1
- ✓ MIL-PRF-2105E

### MANUFACTURER APPROVALS

- ✓ DAF (first fill)
- ✓ MB-Approval 235.8
- ✓ MAN 341 Type E3, Z2
- ✓ MAN 342 Type M3
- ✓ SCANIA STO 1:0
- ✓ VOLVO 97312
- ✓ ZF TE-ML 02B, 05B, 12L, 12N, 16F, 17B, 19C, 21B
- ✓ SAE J2360 (n° PRI GL 0661)

## APPLICATIONS

TOTAL TRANSMISSION DUAL 9 FE 75W-90 is high performance synthetic oil developed for synchronized or non-synchronized manual gearboxes, axles and reduction gears requiring API GL-4, GL-5, MT-1 or MIL-PRF-2105E.

TOTAL TRANSMISSION DUAL 9 FE 75W-90 is a synthetic lubricant of extremely high performance developed based on the T.D.L. (Drive Line Total) concept which is suitable for manual gearboxes and axles subjected to severe conditions of use.

TOTAL TRANSMISSION DUAL 9 FE 75W-90 suits particularly the lubrication of the gears hypoid and axles of most manufacturers such as Mack, MAN, DAF, IVECO, MERCEDES, VOLVO, RENAULT, MACK with extended drain intervals up to 180 000 km.

## 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.
- **Suitable for multi-brand fleet customers:** this lubricant adapted for gearboxes and axles of several OEM, thus enabling customers to use this lubricant for the whole fleet
- **Excellent protection of axles and manual 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
- **Supports rationalisation** of products (MERCEDES BENZ, MAN, VOLVO, etc)

## CHARACTERISTICS\*

Test	Unit	Test method	Result
Volumetric mass at 15°C	kg/m <sup>3</sup>	DIN 51757 D	866
Viscosity at 40°C	mm <sup>2</sup> /s	ASTM D445	101
Viscosity at 100°C	mm <sup>2</sup> /s	ASTM D445	15
Viscosity index	-	ASTM D2270	157
Viscosity Brookfield at -40°C	mPa/s		66 000
Flash point	°C	ASTM D97	-51
Pour point	°C	ASTM D92	190

\* 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](http://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.