

# TRANSMISSION XS FE 75W-80



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

### USES

- **Synthetic based lubricant for manual and automated gearboxes**, whether synchronized or non-synchronized, running under the most severe conditions of load, speed and temperature.
- Specifically developed for medium and heavy duty ZF gearboxes fitted with an integrated retarder (ZF Intarder), where the thermal constraints are the most severe. Extensive bench and field testing have been performed successfully, including on the most recent models of ZF gearboxes.

- Can be recommended for any application requiring an API GL-4 level of performance.
- 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.
- Has been tested on Volvo manual and automated transmissions and is suitable when a Volvo 97307 level of performance is required

### PROPERTIES

- **Very high viscosity index allowing easy cold start** and smooth and efficient gear shifting under all circumstances.
- **Enhanced extreme-pressure and antiwear properties**, for a maximal durability of gears and bearings as well as synchronisers.
- **Outstanding oxidation resistance and thermal stability**, allowing optimal functionality of all the gearbox components for extended drain intervals up to 540 000 km and more.

NB - Compatible with most of synchronizer materials and seals

- Very fluid multigrade formulation **generating fuel economy savings** to the commercial vehicle owner by the limitation of friction, drag and splash losses which affect gearbox efficiency. This lubricant has been certified by TÜV in 2009: after tests carried out in Millbrook (UK) on a Euro 4 truck, the TÜV certified that the combined use of this product together with Fuel Economy lubricants (for engine and axles) **help save 3% of fuel on average** (up to 6,41%)



### SPECIFICATIONS

ZF TE-ML 02E / 16P

MAN 341 type Z-5

Meets the performance requirements of the following international specifications :

API GL-4

### CHARACTERISTICS

TRANSMISSION XS FE	Units	Grade SAE 75W-80
Volumetric mass at 15°C	kg/m <sup>3</sup>	858
Viscosity at - 40°C	mPa.s	42 400
Viscosity at 40°C	mm <sup>2</sup> /s	54
Viscosity at 100°C	mm <sup>2</sup> /s	9.35
Viscosity index	-	157
Flash point Cleveland	°C	240
Pour point	°C	- 42

*The typical characteristics mentioned represent mean value*

TOTAL LUBRIFIANTS  
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This lubricant, when used in accordance with our recommendations and for the application for which it is intended, does not constitute a special hazard. A safety data file conforming to the requirements of current EC legislation is available from your local trade consultant