



TRANSMISSION DUAL 8 FE 80W-90

Transmission Oil

KEY DATA

**SEMI-SYNTHETIC OIL FOR MANUAL
GEARBOXES AND AXLES**

SAE 80W-90

INTERNATIONAL STANDARDS

- ✓ API GL-4
- ✓ API GL-5
- ✓ API MT-1
- ✓ SAE J2360

MANUFACTURER APPROVALS

- ✓ MAN 341 TYPE E2, Z2
- ✓ MAN 342 TYPE M2
- ✓ ZF TE-ML 02B, 05A, 12L, 12M, 16B, 17B, 19B, 21A

APPLICATIONS

TOTAL TRANSMISSION DUAL 8 FE 80W-90 is an oil of synthetic based technology with a high viscosity index for the lubrication of gears under severe conditions of use.

TOTAL TRANSMISSION DUAL 8 FE 80W-90 is designed to meet the challenge of the T.D.L. (Total Drive Line) concept: high performance lubrication of hypoid axles as well as synchronized gearboxes, to simplify maintenance without any compromise on components durability.

TOTAL TRANSMISSION DUAL 8 FE 80W-90 is recommended for use on manual gearboxes, rear axles, or any gear assembly requiring API GL-4, API GL-5, API MT-1 or SAE J2360 levels of performance

TOTAL TRANSMISSION DUAL 8 FE 80W-90 is suitable for the manual transmission of several OEMs such as MAN, DAF, IVECO and RENAULT TRUCKS with extended drain intervals.

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 the 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
- **Improved 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.
- **Improved stability in operation** due to high viscosity index
- **High compatibility with oil filters** due to antifoam properties

CHARACTERISTICS*

| Test | Unit | Test method | Result |
|-------------------------|--------------------|-------------|--------|
| Volumetric mass at 15°C | kg/m ³ | DIN 51757 D | 886 |
| Viscosity at 40°C | mm ² /s | ASTM D445 | 115 |
| Viscosity at 100°C | mm ² /s | ASTM D445 | 14.1 |
| Viscosity index | - | ASTM D2270 | 123 |
| Pour point | °C | ASTM D97 | -33 |

* 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.