



# Multigear<sup>®</sup> MTF HD

## Premium performance fully synthetic SAE 75W-80 transmission fluid

### Product description

Multigear MTF HD is a fully synthetic SAE 75W-80 transmission fluid, designed for extended drain service in heavy duty synchronised manual truck transmissions.

Multigear MTF HD is formulated with fully synthetic base oils in combination with a premium performance additive system.

### Customer benefits

- Long-drain capability of 400,000 km or more, reducing the need for transmission overhauls and maintenance downtime
- Designed for low-temperature fluidity, allowing fast circulation and wear protection during cold start-up
- High Viscosity Index and good shear stability help provide viscosity and film thickness sufficient for effective high temperature lubrication throughout fluid service life
- Specially tuned, durable friction characteristics, offer smooth shifting across fluid lifetime
- Proven fuel economy compared to conventional fluids (up to 3% improvement, when used in combination with Syn-Star GL SAE 75W-90 in the drive axles)
- Durable extreme pressure (EP) protection, designed to resist component scuffing and wear

### Product highlights

- **Designed for 400,000 km long-drain capability**
- **Offers cold start protection**
- **Formulated for smooth shifting**
- **Designed for consistent high temperature protection**
- **Offers improved fuel economy**
- **Aids rust, corrosion and wear resistance**

#### Selected specification standards include:

API	DAF
Daimler	Eaton
MAN	Volvo
ZF	

### Applications

Multigear MTF HD is designed for extended drain in heavy duty synchronised manual truck transmissions. In addition to its formal OEM approvals, field trial data demonstrates its potential capability for extended drain in a range of other truck applications. Field trial vehicles include those manufactured by MAN, Mercedes, Scania and Volvo; transmissions include those manufactured by the truck constructors themselves and by ZF, including AS Tronic models and models fitted with intarders.

Please note that ZF mandates the use of a product with a formal TE-ML 02E approval during the warranty period of many transmission types. Multigear MTF HD may be used in these applications after the end of the warranty period.

### Approvals, performance and recommendations

#### Approvals

- Eaton Synthetic (500,000 km/3 years)
- Volvo 97305
- Volvo 97307
- Volvo 97318<sup>[1]</sup>

#### Performance

- API GL-4<sup>[2]</sup>
- DAF Gearbox oil for Eaton gearboxes
- MAN 341 Type E4

#### Recommendations

- Daimler MB 235.4
- Daimler MB 235.11<sup>[3]</sup>
- MAN 341 Type Z4
- ZF TE-ML 02L<sup>[4]</sup>

<sup>[1]</sup> Volvo approval number: 03

<sup>[2]</sup> Although this product is suitable for use in applications where a GL-4 fluid is specified, it should be noted that the GL-4 specification does not fully address the requirements of synchronized manual transmissions. This fluid is optimised around the needs of commercial vehicle transmissions, and may not give satisfactory performance in applications such as passenger car transmissions

<sup>[3]</sup> In transmissions. The product has not been validated in transfer cases

<sup>[4]</sup> Field trial testing demonstrates suitability for use for up to 400,000 km/3 years

Typical test data		
Test	Test Methods	Results
Product Code		01291
<b>Shelf Life: 60 months from date of filling indicated on the product label</b>		
Density, 15°C, kg/l	ASTM D1298	0.8645
Flash Point COC, °C	ASTM D92	244
Pour Point, °C	ASTM D97	-54
Viscosity, Kinematic, 100°C, mm <sup>2</sup> /s	ASTM D445	9.17
Viscosity, Kinematic, 40°C, mm <sup>2</sup> /s	ASTM D445	54.1
Viscosity, Brookfield, -26°C, mPa.s	ASTM D2983	3670
Viscosity, Brookfield, -40°C, mPa.s	ASTM D2983	19300
Viscosity Index	ASTM D2270	151

The information given in the typical data does not constitute a specification but is an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved. This supersedes all previous editions and information contained in them.

**Disclaimer** Chevron accepts no liability for any loss or damage suffered as a result of using this product for any application other than applications specifically stated in any Product Data Sheet's.

**Health, safety, storage and environmental** Based on current available information, this product is not expected to produce adverse effects on health when used for the intended application and in accordance with the recommendations provided in the Material Safety Data Sheet (MSDS). MSDS's are available upon request through your local sales office, or via the Internet. This product should not be used for purposes other than its intended use. When disposing of used product, take care to protect the environment and follow local legislation.

**A Chevron company product**