



Multigear[®] MTF 75W-80

High performance heavy duty synthetic manual transmission fluid

Product description

Multigear MTF 75W-80 is a high performance heavy duty synthetic manual transmission fluid formulated for use in heavy duty truck synchronised manual transmission systems.

Multigear MTF 75W-80 is formulated with synthetic base fluids in combination with a specifically tuned additive system and offers a drain capability of up to 300,000 km.

Customer benefits

- Long drain capability of up to 300,000 km helps reduce maintenance costs and helps optimise uptime
- High performance, specially tuned friction characteristics contribute smooth shifting performance
- Highly durable friction properties offer protection and performance throughout fluid service life
- Robust shear stability helps maintain lubrication performance and system protection over a long fluid service life
- High viscosity index (VI) offers reliable system protection during high temperature operations
- Low temperature fluidity aids rapid fluid circulation at system start-up helping protect critical and vulnerable components
- Extreme pressure (EP) protection promotes resistance to component scuffing and wear, helping reduce maintenance
- Oxidation stability contributes to the resistance of harmful sludge, lacquer and deposit formation
- Compatible with a wide range of seal materials, helping prevent fluid loss
- Offers resistance to rust and corrosion in ferrous and yellow metal components, helping reduce maintenance, downtime and costs

Product highlights

- **Up to 300,000 km drain intervals**
- **Smooth shifting performance**
- **High performance protection**
- **Long fluid service life**
- **High temperature protection**

Selected specification standards include:

API	DAF
Eaton	MAN
Volvo	ZF

Applications

- Multigear MTF 75W-80 is designed for long drain in heavy duty synchronised manual truck transmissions, including automated models (such as ZF AS Tronic transmissions). Multigear MTF 75W-80 is suitable for use in transmissions fitted with retarders or intarders
- ZF has recently started using a new type of synchroniser component in some of its truck and bus transmissions. These transmissions are indicated by a “TE-ML 01” entry on the name plate. Multigear MTF 75W-80 may also be used for these applications

Approvals, performance and recommendations

Approvals

- | | | |
|---------|--|------------------|
| • DAF | Gearbox oil for ZF A and Eaton gearboxes | Approval pending |
| • MAN | 341 Type Z4 | Approval pending |
| • Volvo | 97305-89 | Approval pending |
| • ZF | TE-ML 02L | Approved |
| • ZF | TE-ML 16K | Approved |

Performance

- API GL-4¹

Recommendations

- Eaton (Europe) Semi-synthetic
(300,000 km/3 years)
- MAN 341 Type E3

¹ Although this product is suitable for use in applications where a GL4 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 optimized around the needs of commercial vehicle transmissions, and may not give satisfactory performance in applications such as passenger car transmissions.

Typical test data		
Test	Test methods	Results
Viscosity Grade		75W-80
Product Code		30439.2
Viscosity, Kinematic, 100°C, mm ² /s	ASTM D445	9.6
Viscosity, Kinematic, 40°C, mm ² /s	ASTM D445	57
Viscosity, Brookfield, -40°C, mPa.s	ASTM D2983	134,000
Viscosity Index	ASTM D2270	150
Colour	ASTM D1500	1.5
Density, 15°C, kg/l	ASTM D1298	0.860
Flash Point COC, °C	ASTM D92	231
Pour Point, °C	ASTM D97	-42

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.

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