



Multigear[®] MTF SAE 75W-80

High performance heavy duty synthetic manual transmission fluid

Product description

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

Customer benefits

- Long drain capability of up to 300,000km helps reduce maintenance costs and helps optimise uptime
- High performance, specially tuned friction characteristics contribute smooth shifting performance
- 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

Product highlights

- **Up to 300,000km 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 SAE 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 SAE 75W-80 is suitable for use in transmissions fitted with retarders or intarders
- Multigear MTF SAE 75W-80 may be used for service fill in ZF truck and bus transmissions with “TE-ML 01” or “TE-ML 02” entries on the name plate. For transmissions filled ex-works with lubricant classes 01E/02E, ZF permits Multigear MTF SAE 75W-80 to be used for refilling after transmission retrofitting or repair during the first two years of service.

Approvals, performance and recommendations

Approvals

- DAF Oil for ZF transmissions
- MAN 341 Type E3^[1]
- MAN 341 Type Z4
- ZF TE-ML 01L^[2]
- ZF TE-ML 02L^[2]
- ZF TE-ML 16K^[2]

Performance

- API GL-4^[3]
- Volvo 97305-89

Recommendations

- DAF Oil for Eaton transmissions
- Eaton (Europe) Semi-synthetic (300,000 km/3 years)

^[1] MAN approval number: TUC 0541/12

^[2] ZF approval number: ZF000813

^[3] 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 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
Shelf Life: 60 months from date of filling indicated on the product label.		
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 D5950	-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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