

ZF Ecofluid A Life

Fully synthetic automatic transmission oil.

Description

The fully synthetic ATF ZF-EcoFluid A Life was specially developed for use in Ecomat and ZF-EcoLife transmissions. The combination of a synthetic base oil (based on poly-alpha-olefins) with a specially balanced additive package delivers superlative oxidation stability and constant friction characteristics. ZF-EcoFluid A Life is also distinguished by its flat viscosity-temperature characteristic curve, and is therefore particularly suited for use in both cold and hot climatic regions.

Applications

ZF-EcoFluid A Life is fully synthetic oil for automatic commercial vehicle transmissions. ZF-EcoFluid A Life is particularly recommended for city buses and coaches as well as for extreme pressures, such as demanding topography, stop-and-go traffic, and frequent retarder operation.

ZF-Ecofluid A Life fulfills all specified in the ZF List of Lubricants, TE-ML 04D, 14E, 16N, 16Q, 20F.

ZF-EcoFluid A Life is miscible with all other ATF grades specified in the ZF List of Lubricants, TE-ML 04D, 14E, 16N, 16Q, 20G.

Benefits

- Extended drain capabilities up to 120.000 km
- Full synthetic formulation to provide an extreme thermal stability.
- Improved shear stability for a stable viscosity during use
- Excellent oxidation and thermal stability
- Full synthetic formulation to provide an extreme thermal stability.

Specifications, recommendations and approvals

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|-----|--------------|----|-----------|
| MAN | 339 Type Z13 | ZF | TE-ML 16N |
| MAN | 339 Type Z4 | ZF | TE-ML 16Q |
| ZF | TE-ML 04D | ZF | TE-ML 20F |
| ZF | TE-ML 14E | | |

Color code blue = officially approved

Properties

| | Method | Unit | Typical |
|----------------------------------|--------|--------------------|---------|
| Density, 15 °C | D 4052 | g/ml | 0,842 |
| Kin. Viscosity Base Oil at 40 °C | D 445 | mm ² /s | 61 |
| Kinematic Viscosity, 100 °C | D 445 | mm ² /s | 10.1 |
| Viscosity Index | D 2270 | - | 150 |
| Brookfield Viscosity, -40 °C | D 2983 | Pa.s | 28 |
| Pour Point | D 97 | °C | -57 |
| Flash Point, P-M | D 93 | °C | 240 |

The figures above are not a specification. They are typical figures obtained within production tolerances.