PRODUCT DATA SHEET

# 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 there fore particularly suited for use in both cold and hot climatic regions.*

## Applications

*ZF-EcoFluid A Life is fully synthetic oil for autotomatic 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 capabilties 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

| | | | |
|---|---|---|---|
| **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* | *mm²/s* | *61* |
| *Kinematic Viscosity, 100 °C* | *D 445* | *mm²/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.*