ZF-Ecofluid Life Plus

Automatic Transmission Fluid for ZF-EcoLife Transmissions

Product description:
ZF-Ecofluid Life Plus was specially developed as a fuel economy oil for use in modern ZF-EcoLife transmissions. The use of ZF-Ecofluid Life Plus leads to fuel savings of up to 1.5% in the SORT cycle. Depending on actual use of the vehicle, even higher fuel savings can be achieved.

The combination of a base oil based on XHVI synthesis technology with a specially balanced additive package ensures excellent oxidation stability and a constant coefficient of friction. This oil is explicitly recommended particularly at higher loads caused by challenging topography or frequent retarder operation, for example.

Optimum transmission-adapted viscosity that remains stable throughout the oil’s service life as well as additives optimized for this application guarantee a particularly high protection level and thus extended service lives of bearings and gears. Moreover, ZF-Ecofluid Life Plus features a flat viscosity-temperature characteristic curve and is therefore particularly suited for applications in regions with cold or hot climates.

Application:
- **ZF-Ecofluid Life Plus** is the oil favored by ZF for all ZF-EcoLife transmissions.
- **ZF-Ecofluid Life Plus** is particularly recommended for use in city buses and coaches as well as for extreme applications, such as demanding topographical conditions, stop-and-go traffic and frequent retarder operation.
- In combination with the ZF-TESTMAN software, **ZF-Ecofluid Life Plus** makes it possible to determine application-specific, flexible oil-change intervals.
- **ZF-Ecofluid Life Plus** is released according to ZF lubricant class TE-ML 20G and MAN specification 339-Z14.
- **ZF-Ecofluid Life Plus** can be mixed with all commercially available automatic transmission fluids. Please note that mixing it with non-fully synthetic products may have a negative impact on the advantages of ZF-Ecofluid Life Plus. Therefore, after reoiling with mineral oil-based or partially synthetic ATF, an interim oil change interval at half of the standard mileage is required.

The Lists of Lubricants can be viewed on the Internet at [www.aftermarket.zf.com](http://www.aftermarket.zf.com).
Advantages:

- **Fuel savings**
  Thanks to optimized viscosity and additives.

- **Reduced operating costs**
  Thanks to extended oil change intervals enabled by optimum thermal and oxidizing stability. In combination with ZF-TESTMAN, change intervals can be set individually and thus extended. This helps to save oil, oil filters and working time.

- **Increased shift comfort**
  Thanks to friction characteristics which are optimally harmonized with the transmission.

- **Low maintenance costs**
  Thanks to good material compatibility, optimum operational viscosity and further improved protection of bearings and gears.

- **Less impact on the environment**
  Thanks to reduced used oil quantities.

- **Flexible temperature behavior**
  Due to its low viscosity temperature characteristic, the oil is particularly suitable in both cold and hot climatic regions.

### Product properties:

<table>
<thead>
<tr>
<th>Product no.</th>
<th>Capacity</th>
<th>Characteristics (typical values)</th>
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<tbody>
<tr>
<td>Canister</td>
<td>20 l</td>
<td>Density at 15°C: 832 kg/m³</td>
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<tr>
<td>Drum</td>
<td>209 l</td>
<td>Viscosity at 40°C: 35 mm²/s</td>
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<td></td>
<td>Viscosity at 100°C: 7.1 mm²/s</td>
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<tr>
<td></td>
<td></td>
<td>Brookfield viscosity at -40°C: 10000 mPa.s</td>
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<tr>
<td></td>
<td></td>
<td>Pour point: -57 °C</td>
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<td></td>
<td></td>
<td>Flash point (COC): 236 °C</td>
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<td></td>
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<td>Other specifications: MAN 339 Type Z-14</td>
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