



## Electric drive systems for commercial vehicles

## List of lubricants TE-ML 28

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### 1. Approved lubricant classes

Product groups	Lubricant classes <sup>(1)</sup>
Electric drive systems  <b>CeTrax Lite</b> CX 109  <b>CeTrax 2</b> CX 318 CX 321  <b>CeTrax 2 dual</b> CX 326, CX 328, CX 332, CX 336, CX 338  <b>AxTrax 2</b> AX 318, AX321	ZF EcoFluid E SAE 75W-70 28A
Electric drive systems including wheel head transmissions  <b>AxTrax 2 LF</b> AX 426, AX 436  <b>AxTrax 2 dual</b> AX 336, AX 338	ZF EcoFluid E SAE 75W-70 28A
Electric drive systems for city buses including wheel head transmissions with introduction robustness package  <b>AxTrax AVE (AVE 130)</b> AX 217, AX 219	ZF EcoFluid XE SAE 75W-85 28C
Grease-lubricated compact bearing (hub unit) in wheel head transmissions or wheel heads  <b>AxTrax 2, AxTrax 2 dual, AxTrax 2 LF, AxTrax AVE (AVE 130)</b>	28B

The list of lubricants TE-ML 28, **edition 01.04.2026** replaces all previous editions. The current list can be requested from any ZF after-sales service center or accessed on the Internet under [www.aftermarket.zf.com/lubricants](http://www.aftermarket.zf.com/lubricants).

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## 2. Change intervals <sup>(2)</sup>

### 2.1 CeTrax Lite

No oil change required.

### 2.2 Electric drive systems AxTrax 2, AxTrax 2 dual, CeTrax 2, CeTrax 2 dual, AxTrax 2 LF

Application / Lubricant class	ZF EcoFluid E SAE 75W-70 28A	Oil filter, breather	Lubricating grease 28B
- Hot country use <sup>(3)</sup> - Scheduled routes (city – and suburban operation) - Short-distance transport - Tough operating conditions - Average speed from 20 to 60 km/h	120.000 km 2 years	120.000 km 2 years	500.000 km 4 years
- Long-distance transport - Average speed as of 60 km/h	180.000 km 2 years	180.000 km 2 years	800.000 km 6 years

### 2.3 Electric drive system AxTrax AVE (AVE 130)

Application / Lubricant class	ZF EcoFluid XE 75W-85 28C	Lubricating grease 28B
- Scheduled routes (City operation)	60.000 km 1 year	500.000 km 4 years

## 3. Explanation of footnotes and comments

### Footnotes

- (1) Refer to the following pages for approved commercial products.
- (2) Change required, depending on what occurs first. Only use genuine ZF parts.
- (3) The denomination „hot country use“ is derived from the area where the vehicle is used, rather than from a country in the sense of a state.  
 A “Hot country use” occurs when:  
 1. the monthly average temperature exceeds 25°C in more than 2 months within a year  
 2. or if temperatures rise above 40°C on more than 7 days in a year.

### Comments

Additives of any kind added **later** to the oil change the oil in a manner that is unpredictable, and they are therefore not permitted.

ZF assumes no liability for damage caused by non-observance of the maintenance instructions or by subsequently added additives.

4. Lubricant classes and approved trade products

**Lubricant class 28A**  
Transmission oil for electric vehicle drives  
Viscosity grade: SAE 75W-70

Manufacturer (28A)	Trade name (28A)	ZF approval number
ZF FRIEDRICHSHAFEN AG, FRIEDRICHSHAFEN/DE	ZF ECOFLUID E	ZF008340

**Lubricant class 28B**

Lubricating grease for long-term lubrication of compact bearings (Hub Unit)

**Manufacturer (28B)**

FUCHS PETROLUB SE, MANNHEIM/DE  
FUCHS PETROLUB SE, MANNHEIM/DE  
ZF FRIEDRICHSHAFEN AG, FRIEDRICHSHAFEN/DE

**Trade name (28B)**

RENOLIT LX-NHU 2 - OEM  
RENOLIT LX-PEP 2-OEM  
ZF RENOLIT LX-PEP 2

**ZF approval number**

ZF012093  
ZF012094  
ZF012109

**Lubricant class 28C**  
Transmission oil for electric vehicle drives  
Viscosity grade: SAE 75W-85

Manufacturer (28C)	Trade name (28C)	ZF approval number
TOTALENERGIES LUBRIFIANTS, NANTERRE/FR ZF FRIEDRICHSHAFEN AG, FRIEDRICHSHAFEN/DE	RUBIA EV-DRIVE MP 7.1 ZF ECOFLUID XE	ZF010971 ZF008403