



ZF Lifeguard Hybrid 1

Automatic Transmission Fluid for ZF Hybrid Passenger Car Transmissions

Product description:

ZF Lifeguard Hybrid 1 was specially developed by ZF for use in 8HP, 8P and 9HP hybrid automatic passenger car transmissions. The friction behavior has been optimally adapted for this transmission and is consistent over the entire service life. These features are a prerequisite for perfect shifting characteristics and vibration-free operation. ZF Lifeguard Hybrid 1 fulfills the most demanding requirements on the transmission's comfort behavior.

The additives, which are customized to the individual components, also provide specialized protection and thus increase the service life of all transmission components. The optimized viscosity forms the basis of maximized fuel savings. The high-quality semi-synthetic base oil ensures that high thermal-oxidative stability is maintained throughout the transmission's entire service life. Due to its flat viscosity-temperature characteristic curve, it is also well suited for use in particularly cold or hot climatic regions.

Application:

ZF Lifeguard Hybrid 1 was specially developed for use in ZF 8HP, 8P and 9HP hybrid automatic transmissions. Special attention was paid to high-quality protection of all oil-cooled electric components. The approvals for each specific case can be found in the ZF List of Lubricants TE-ML 11 (www.zf.com/schmierstoffe).

Using other transmission fluids can lead to various adverse effects, ranging from significant deterioration in shifting characteristics to transmission failure. In principle, changing the transmission fluid is only necessary when repairs are carried out.

ZF hybrid automatic transmissions are generally filled with lifetime oil. However, due to the many factors influencing the service life of transmissions in individual operation, ZF recommends an oil change after 150,000 km for its transmissions.



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In operating conditions with high temperatures and loads, or with unknown vehicle use in the past, it can make sense to change the transmission oil at shorter intervals. When changing the fluid, only the approved transmission fluid may be used for the fluid change, and it is also necessary to ensure that the transmission fluid change is carried out according to the relevant ZF provisions.

Small container (up to 20 l) must be shaken vigorously for at least 15 s before removing the oil. Before removing oil, large container (more than 20 l) must be mixed with a suitable and clean stirrer (min. 1500 1 / min) for at least 60 min at room temperature.

Product properties:

Product no.		
AA02.836.455	Bottle	1 Liter
Characteristics (typical values)		
Color	Blue-green	
Density at 15°C (ISO 12185)	849 kg/m ³	
Viscosity at 40°C (DIN 51562)	26 mm ² /s	
Viscosity at 100°C (DIN 51562)	5.6 mm ² /s	
Brookfield viscosity at -40°C (DIN 51398)	8.850 mPa.s	
Pour point (ISO 3016)	-41 °C	
Flash point (COC) (ISO 2592)	186 °C	
Autoignition temperature (DIN 51794)	>320 °C	