

Product Information

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TITAN FFL-8

Premium Performance DCTF. Specifically developed for ZF/PORSCHE double-clutch transmissions with wet clutch. Provides optimum wear protection and excellent friction properties even under highest loads. Offers an optimum shifting performance throughout the lifetime of the transmission.

Description

TITAN FFL-8 is a special transmission oil that was developed in an exclusive partnership with ZF /PORSCHE for the specific demands of ZF /PORSCHE double-clutch transmissions. TITAN FFL-8 was developed to meet modern requirements; it is based on selected base oils and state-of-the-art additive technology. It ensures optimum friction properties and precise/fast shifting even under the most extreme loads. Moreover TITAN FFL-8 meets the complex non-ferrous metal and electronic component requirements, which are of critical importance for the proper functioning of the electrical /hydraulic control circuit. TITAN FFL-8 offers optimum wear and tear protection throughout the component's life cycle.

Application

TITAN FFL-8 was developed especially for use in ZF double-clutch transmissions. TITAN FFL-8 has been exclusively approved according to ZF TE-ML 11 for ZF 8-speed double-clutch transmissions. This range of transmissions is installed in a wide range of Porsche models (Porsche PDK). The product must be homogenized before use. To maintain the unobjectionable operation of the transmission, TITAN FFL-8 must not be mixed with any other transmission oil.

Note: This product was previously marketed as PENTOSIN FFL-8.

Advantages

- Friction characteristics specifically optimised for the ZF/PORSCHE double-clutch system.
- Excellent friction stability for constantly smooth gear shifting throughout the oil drain interval.
- Excellent wear protection.
- Superior protection against foaming.
- Outstanding compatibility with non-ferrous metals and electric components of hydraulic control circuits.
- Outstanding fuel efficiency and thus reduced CO₂ emissions.
- Suitable for selected hybrid vehicles subject to OEM requirements.

Specifications

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Approvals

- ZF TE-ML 11 (ZF004743)

FUCHS Recommendations

- BENTLEY G 052 524 B2
- PORSCHE 000 043 210 44
- PORSCHE 971 094 307 02A
- VW G 055 524

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TYPICAL CHARACTERISTICS

Density at 15°C	DIN 51757	0.838 g/ml
SAE Grade	SAE J306	70W-70
Kinematic Viscosity at 40°C	DIN 51562-1	25.3 mm ² /s
Kinematic Viscosity at 100°C	DIN 51562-1	5.4 mm ² /s
Viscosity Index	DIN ISO 2909	155
Pour Point	DIN ISO 3016	-60 °C
Product Dyeing	DIN 10964	none

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Notes

The information contained in this product information is based on the experience and know-how of FUCHS LUBRICANTS (UK) plc in the development and manufacturing of lubricants and represents the current state-of-the-art. The performance of our products can be influenced by a series of factors, especially the specific use, the method of application, the operational environment, component pre-treatment, possible external contamination, etc. For this reason, universally valid statements about the function of our products are not possible.

Our products must not be used in aircraft or spacecraft. Our products may be used in manufacture of components for aircraft or spacecraft if they are removed without residue from the components prior to assembly into the aircraft or spacecraft.

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