

## HIGHTEC TF-TO4 SAE 10

High-performance, multi-functional oil (UTTO) for power-shift transmissions, gears and hydraulics in construction machinery and work machines.

### Description

HIGHTEC TF-TO4 SAE 10 is a high-performance UTTO (Universal Tractor Transmission Oil) produced using selected base oils and special additives. It has been developed specifically to meet the Caterpillar TO-4 requirements.

### Application

HIGHTEC TF-TO4 SAE 10 is a multi-functional oil for construction and agricultural machinery as well as work machines. It is used in power-shift transmissions, splitter gearboxes, end drives and hydraulics in accordance with the manufacturer's specification. HIGHTEC TF-TO4 SAE 10 is miscible and compatible with the former CAT-TO 2 oils as well as conventional hydraulic and engine oils. As a result, a changeover can be achieved without any difficulty.

### Equivalent quality in accordance with EU-law as per

- API GL4
- Allison C-4
- Caterpillar TO-4
- Dana Powershift Transmissions
- Komatsu KES 07.868.1
- ZF TE-ML 03C

### Advantages

- Miscible and compatible with CAT-TO2, conventional hydraulic and engine oils
- Excellent foaming behaviour
- High friction coefficient stability for unvarying braking performance
- Outstanding wear protection for gears and hydraulics
- Multi-functional use in power-shift transmissions, splitter gearboxes, end drives and hydraulic systems
- Good viscosity-temperature behaviour and high shear stability
- Stable lubricating film, even with hot oil and under excessive loads, and the best wear protection
- Good oxidation stability due to selected base oils and special additives
- Miscible and compatible with conventional and synthetic multi-functional oils. However, in order to exploit the full product benefits of HIGHTEC TF-TO4 SAE 10, a complete oil change is recommended.



## Typical characteristics

Property	Method	Unit	Value
Density at 15 °C	ASTM D-7042	g/ml	0.875
Kinematic viscosity KV 100	ASTM D-7042	mm <sup>2</sup> /s	6,0
Kinematic viscosity KV 40	ASTM D-7042	mm <sup>2</sup> /s	34,0
Viscosity index	ASTM D2270	-	122
Flash point	ASTM D-92 / DIN EN ISO 2592	°C	236
Pour point	ASTM D-97 / DIN EN ISO 3016	°C	-35
Total base number	DIN 51639-1	mgKOH/g	7,6
Acid number		mgKOH/g	< 1

These characteristics are typical for current production. The data does not constitute an assurance of properties or a guarantee of suitability for a specific application. Existing legal provisions and regulations that affect handling and usage of the products must be observed by the recipient of our products. ROWE products are continuously being developed. For this reason, ROWE retains the right to change all technical data in this product information at any time without prior announcement. Our current General Delivery and Payment Conditions apply ([www.rowe-oil.com](http://www.rowe-oil.com)).

