

## HIGHTEC TF-TO4 SAE 30

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

### Description

HIGHTEC TF-TO4 SAE 30 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 30 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 30 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.

### The quality of this product is equivalent to EU regulations

- API CF/GL4
- Allison C-4/TES-439
- Caterpillar TO-4
- Dana Powershift Transmissions
- Komatsu KES 07.868.1
- ZF TE-ML 03C, 07F

### Benefits

- 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 30, a complete oil change is recommended.

### Typical characteristics

Property	Method	Unit	Value
Density at 15 °C	ASTM D-7042	g/ml	0.896
Kinematic viscosity KV 40	ASTM D-7042	mm <sup>2</sup> /s	98,0
Kinematic viscosity KV 100	ASTM D-7042	mm <sup>2</sup> /s	11,2
Viscosity index	ASTM D-7042	-	100
Flash point	ASTM D-92 / DIN EN ISO 2592	°C	258
Pour point	ASTM D-97 / DIN EN ISO 3016	°C	-25
Total base number	DIN 51639-1	mgKOH/g	7,6
Acid number	-	mgKOH/g	< 1

The characteristics shown are typical of current production. This data cannot be constructed as a legally binding warranty or guaranty of certain product properties or of the suitability of the product for a specific application. ROWE products are continually improved. Therefore ROWE reserves the right to change all the technical data in this product information at any time without notice. All sales and deliveries shall be subject to our current General Terms and Conditions of Sale and Terms ([www.rowe-oil.com](http://www.rowe-oil.com)).

