

HIGHTEC UTTO SAE 10W-30

High-performance, multi-functional oil (UTTO) for power-shift transmissions, gears, hydraulics and end drives with or without wet brakes in construction machinery and work machines.

Description

HIGHTEC UTTO SAE 10W-30 is a high-performance UTTO (Universal Tractor Transmission Oil) produced using selected base oils and special additives.

Application

HIGHTEC UTTO SAE 10W-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.

The quality of this product is equivalent to EU regulations

- API GL-4
- AGCO Powerfluid 821 XL
- AGCO Q-186 (Whitefarm)
- Allison C-4
- Case MS 1230, 1210, 1209, 1207, 1206
- CAT TO-2
- CNH MAT 3525, 3526, 3509, 3506, 3505
- FNHA-2-C-200.00/-201.00
- Ford M2C 48 C3/M2C86-B/-C/M2C134-D
- John Deere J20C
- Kubota UDT
- Massey Ferguson CMS 1145 (1135/1141/1143)
- NH 410 B
- Volvo WB 101
- ZF TE-ML 03E, 05F, 06K, 17E

Additionally this product is recommended when the following filling instructions are required

- CNH MAT 3540
- Valtra G2-08/G2-B10

Benefits

- Excellent economy grade for multi-functional use
- 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 UTTO SAE 10W-30, a complete oil change is recommended.



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Typical characteristics

Property	Method	Unit	Value
Density at 15 °C	ASTM D-7042	g/ml	0.882
Kinematic viscosity KV 40	ASTM D-7042	mm ² /s	69,2
Kinematic viscosity KV 100	ASTM D-7042	mm ² /s	11,9
Viscosity index	ASTM D-7042	-	169
Flash point	ASTM D-92 / DIN EN ISO 2592	°C	240
Pour point	ASTM D-97 / DIN EN ISO 3016	°C	-36
Total base number	DIN 51639-1	mgKOH/g	8,6
Schaumverhalten bei 24 °C	ASTM D 892	ml/ml	5/0
Schaumverhalten bei 93,5 °C	ASTM D 892	ml/ml	0/0
Schaumverhalten bei 24 °C nach 93,5 °C	ASTM D 892	ml/ml	10/0

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