

MAK TRANS BTH 10W-30

Premium tractor fluid for oil immersed brakes, transmission and hydraulic systems

MAK Trans BTH 10W-30, a premium Universal Tractor Transmission Oil (UTTO) is designed for use in oil immersed brakes (OIB), transmissions, hydraulic systems and other implements fitted to agricultural tractors and off-road equipment. It has been developed from superior quality base oils and specially selected performance additives. The multifunctional additives impart excellent antiwear characteristics, superior resistance to oxidative and thermal degradation of the oil and good antifoaming, anti-corrosion properties. The extremely shear-stable additive helps maintain peak performance even under severe and continuous operation. The high film strength offers protection to the driveline components even at an elevated bulk oil temperature. Special friction modifying additives ensure optimum wet brake performance under arduous working conditions. MAK Trans BTH 10W-30 is compatible with elastomeric seal materials and ensures longer seal life.

Applications:

MAK Trans BTH 10W-30 is recommended for use in hydraulic systems, wet brakes, transmission & axles and other ancillary systems attached to agricultural tractors. It is also suited for power-assisted steering & power take-offs (PTO) with wet clutches, automatic transmissions, torque converters, hydrostatic transmissions and off-highway/ construction equipment (e.g. backhoe loaders) requiring UTTO lubricant with API GL-4 performance.

Performance/ Benefits:

Resistance to Oxidation and Thermal Degradation – outstanding resistance to the effects of oxidising agents. Extends gear and bearing life due to minimal deposits and longer seal life. Ensures reliability of system, longer drain period and less maintenance.

Excellent Antiwear Capability – offers excellent protection to driveline systems like differential, final drive & axle and hydraulic pump. Provides increased load carrying capability thereby reducing operating cost.

Anti-foaming and Demulsibility Characteristics – exhibits low foaming tendency excellent water separation characteristics.

Excellent Rust and Corrosion Protection – reduces wear, down time and maintenance cost.

Better Low Temperature Lubrication – results in reduced wear, responsive hydraulic performance and easy gear shifting at low ambient temperatures.

Performance Level/ Specification:

- John Deere JDM J20C
- Volvo WB101
- Ford M2C 134D
- Massey Ferguson CMS M1141/ M1135
- API GL-4

Typical Physico-Chemical Data: MAK Trans BTH 10W-30

Characteristics	Method	Value
SAE Viscosity Grade	SAE J300	10W-30
Colour	Visual	Brown
Appearance	Visual	Clear and Bright
Density @15°C, g/cc	ASTM D1298	0.8627
Kinematic Viscosity @40°C, cSt	ASTM D445	59.4
Kinematic Viscosity @100°C, cSt	ASTM D445	10.2
Viscosity Index	ASTM D2270	160
Copper Corrosion, 100°C, 3 hrs.	ASTM D130	1b
Flash Point, °C	ASTM D92	224
Pour Point, °C	ASTM D97	-36
Foaming Tendency	ASTM D892	
a) Sequence I		15/ NIL
b) Sequence II		45/ NIL
c) Sequence III		15/ NIL

Storage & Handling:

The product should be stored inside. Keep it properly sealed to avoid contamination. Avoid freezing. Shelf life is 5 yrs. under protected storage conditions.

Health & Safety:

It is unlikely to be hazardous when properly used in recommended applications. Contamination of the coolant from other oils, greases, chemicals, dirty water etc. can occur during the use. It should be avoided. Regular monitoring of the in-use product is recommended.