

UNITRANS HD

Universal transmission oil

Description

UNITRANS HD is a high quality heavy duty lubricant for use in off-highway equipment. It is specially formulated for common use in heavy equipment.

Applications

UNITRANS HD is recommended for off-highway equipment's Transmissions, Wet Disc Brake, Hydraulics, and Final Drives.

Specification Meets

Specification Approvals :

- ▶ ZF TE-ML-03C
- ▶ ZF TE-ML-07F

Performance Levels:

- ▶ CAT TO-4 and TO-4M
- ▶ Allison C4
- ▶ Komatsu KES 07.868.1 (2002)
- ▶ API MT-1

Advantages

- ▶ Outstanding friction control
- ▶ Superior wear protection and load carrying
- ▶ Prolonged life of brakes and transmissions
- ▶ Good oxidation stability
- ▶ Good elastomer compatibility

Typical Data of UNITRANS HD

Characteristics	Unit	UNITRANS HD			Test Method
		10W	30	50	
Color		L 2.0	L 2.0	L 3.5	ASTM D 1500
Density @ 15 °C	kg/L	0.8694	0.8837	0.8966	ASTM D 4052
Kinematic Viscosity @ 40 °C	cSt	39.13	101.03	214.84	ASTM D 445
Kinematic Viscosity @ 100 °C		6.31	11.46	18.96	
Viscosity Index		110	100	99	ASTM D 2270
Flash Point (COC)	°C	230	234	234	ASTM D 92
Pour Point	°C	-15	-15	-15	ASTM D 97
Total Base Number	mg KOH/g	10.69	10.68	10.58	ASTM D 2896

* the typical characteristic mentioned represent mean values