



MORRIS
LUBRICANTS

Product Information:

TERRAIN CT10, CT30, CT50, CT60 **OFF-HIGHWAY TRANSMISSION / HYDRAULIC FLUIDS**

Description

The Terrain CT range is formulated with high quality mineral oils and additives designed to provide the correct frictional characteristics required by Caterpillar in transmission and hydraulic systems. The additive system also gives this oil improved temperature performance, superior resistance to oxidation, rust, corrosion and improved anti-foam properties. In addition these grades have excellent extreme pressure (EP) and anti-wear characteristics ensuring maximum frictional material life in powershift transmissions.

Terrain CT grades also have outstanding wet brake performance, eliminating “squawk and chatter” and prolonging component life.

Applications

The Terrain CT grades are designed for use in a wide variety of Caterpillar construction and material handling equipment. Applications include: powershift transmissions, direct drive transmissions, winches, final drives for track-type tractors (pipelayers, skidders, loaders, excavators, etc.) and wheeled tractors (loaders, compactors, graders, etc.) and certain hydraulic systems.

These grades may also be used in Allison and ZF powershift transmissions, manual transmissions and torque converters, where an oil of this type and specification is required.

Performance Levels

All grades meet the following specifications

Cat TO-4

ZF TE-ML-03C

ZF TE-ML-07F

Komatsu KES 07.868.1 (2002)

Allison C4

API MT-1

Physical Characteristics

Grade	CT10	CT30	CT50	CT60
Appearance	Amber Liquid	Amber Liquid	Amber Liquid	Amber Liquid
Relative Density @ 15.6°C	0.868	0.875	0.895	0.899
Kinematic Viscosity @ 40°C (cSt)	31.26	86.95	214.16	289.90
Kinematic Viscosity @ 100°C (cSt)	5.50	10.98	19.64	23.41
Viscosity Index	113	112	105	109
Closed Flash Point (°C)	202	214	218	220
Pour Point (°C)	-39	-33	-27	-18

Figures based on average production values

(TDS Terrain CT Range – 090818 Issue 9)

