



A brand of **TOTAL**

# TRACTELF KTR 4 SAE 10W SAE 30 SAE 50



**Lubricant for hydraulic systems and transmission components (axles or gearboxes) equipped with specific brake friction discs**

## APPLICATIONS

### Hydraulic system

### Powershift gearbox

### Axle

### Final drive

### Mechanical gearbox

- Hydraulic systems, powershift gearboxes, axles and final drives for which the manufacturer recommends a fluid meeting CAT TO-4 or one of the hereunder mentioned specifications
- Recommended for Mining, Earthmoving and Construction machinery operating between -10°C and +40°C:
  - grade SAE 10W is used in hydraulic systems
  - grade SAE 30 is used in powershift gearboxes
  - grade SAE 50 is used in axles and final drives

## PERFORMANCES

### Meets the requirements of:

API GL-4  
API CF  
ALLISON: C4 (SAE 10W & SAE 30)  
CATERPILLAR: TO-4  
KOMATSU: MICRO-CLUTCH  
ZF: TE-ML 03C (SAE 10W & SAE 30)  
ZF: TML-ML 07F (SAE 30)

### Suitable for transmission systems of:

ALLISON, DANA, EATON FULLER, KOMATSU, ROCKWELL, ZF...

## CUSTOMER BENEFITS

### Consistent shifting

- Friction properties adapted to the types of CATERPILLAR, KOMATSU and other machinery friction materials

### Long component life

- Excellent anti-wear and anticorrosion properties, increasing the durability of the lubricated organs

### Good seal compatibility

- Controlled swelling, hardening and cracking of seals to avoid leakage

### Reliable service life

- Formulated with selected base oils associated to a recently developed chemistry, giving superior oxidation resistance at high temperature and drain interval extension

### Emulsifying properties

- Capability to keep contaminated condensation water in emulsion and avoid any pump breaks in Winter or rapid degradation in Summer

## CHARACTERISTICS

Test Description	Method	Units	SAE 10W	SAE 30	SAE 50
Density at 15°C	ASTM D4052	Kg/m <sup>3</sup>	870	886	898
Viscosity at 40°C	ASTM D445	mm <sup>2</sup> /s	42	99	208
Viscosity at 100°C	ASTM D445	mm <sup>2</sup> /s	6.7	11.2	18.4
Viscosity index	ASTM D2270	-	114	98	98
Pour point	ASTM D97	°C	-36	-30	-21
Flash point	ASTM D92	°C	230	235	235

*The features mentioned above are average values obtained with some variability in production and do not constitute a specification.*

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TRACTELF KTR 4 SAE 10W, SAE 30 & SAE 50  
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This lubricant does not cause adverse health effects when used in the intended application.

A safety datasheet is accessible on request from your local dealer or on the website <https://sdstotalms.total.com>