

NAVIGATOR TO-4 SAE 10W, 30, 50

Transmissions and
Gearboxes

Description

Lubricant oil specially formulated to meet the requirements of CATERPILLAR, ALLISON and KOMATSU specifications, applicable to power-shift transmissions, clutches and brakes, as well as end controls, crowns and differentials (depending on SAE grade). May also be used in some special hydraulic applications, as is the case with the SAE 10W grade.

Properties

- Prevents transmission slippage.
- Great capacity for supporting loads and anti-wear properties.
- Increased useful life of the clutch discs and smooth operating of the brakes.
- Enables greater dragging and start-up force in machines.
- Compatibility with gaskets.
- Excellent anti-corrosive properties.
- Cannot be used as motor oil.

Quality levels, approvals and recommendations

- API GL-4 (SAE 30 y 50)
- API CF (SAE 30 y 50)
- ZF TE-ML 03C, Approval ZF003469 (SAE 10W)*
- ZF TE-ML 03C, 07F, Approval ZF003472 (SAE 30)*
- CATERPILLAR TO-4
- ALLISON C-4 (SAE 10W y 30)
- KOMATSU KES 07.868.1*

*Formal approval

Technical specifications

	UNIT	METHOD	VALUE		
SAE Grade			10W	30	50
Density at 15 °C	g/mL	ASTM D 4052	0,87	0,89	0,90
Viscosity at 100 °C	cSt	ASTM D 445	6,5	11,3	18
Viscosity at 40 °C	cSt	ASTM D 445	37	111	208
Viscosity at -25 °C	cP	ASTM D 5293	< 7000	-	-
Viscosity index	-	ASTM D 2270	115	100	97
Flash point, open cup	°C	ASTM D 92	< 200	< 220	< 220
Pour point	°C	ASTM D 97	-42	-33	-18
T.B.N	mgKOH/g	ASTM D 2896	10	10	10

The above mentioned characteristics are typical values and should not be considered product specifications.