



SAE 10w 30 50 T04



Description

Extra high performance, heavy duty transmission and drive-train lubricants engineered to meet or exceed the requirements of the rigorous Caterpillar TO-4 specification. This product line is uniquely designed to optimize the performance of powershift transmissions, gearboxes, and final drives. In hydraulic applications, they provide maximum protection even in high pressure systems

This technology combines selected base oils and an advanced additive system to deliver the precise performance parameters needed to maximize the productivity of construction, quarrying, and mining equipment operating in severe conditions. These products offer a clear performance advantage over the use of mixed fleet engine oils and previously used lubricants meeting Caterpillar TO-2.

Features and Benefits

- Balanced static and dynamic friction coefficients
- Optimised clutch-friction retention and slippage control
- Significantly improved clutch life compared to the best API CD/TO-2 engine oils
- Compatible with modern clutch materials and elastomers Longer clutch life and higher performance
- Increased levels of anti-wear and load carrying capability
- Reduced gear wear and extended life in transmissions, gearboxes, and final drives
- Greater productivity from reduced downtime
- Excellent foam control protection
- Top performance in wet brakes; excellent control of brake chatter
- Excellent thermal and oxidation stability Outstanding hydraulic oil stability and protection against high-pressure pump wear
- Lower viscosities offer very good low temperature pump ability that reduced time from start-up to production

Applications

- Heavy duty transmissions, gear boxes, final drives, and hydraulic systems used in off-highway applications
- Off-highway industries including: mining, construction, quarrying, and agriculture
- Manual, powershift, and automatic transmissions where Allison C-4 fluids (SAE 10W and 30 grades) are called for including Twin Disc and transmissions calling for Type F fluids
- Most mobile equipment hydraulic applications



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- Rockwell / Eaton / Fuller, Spicer, Fabco, Warner and other trucks.
- Engines of Caterpillar, Allison, Komatsu, Clark, Hürth, Borg-Warner, Twin Disc, Voith, ZF, Funk y rockhouse, CNH transmissions powershift type and Eaton / Rockwell / Fuller.

Technical data

Characteristics	Standard	10w	30	50
Appearance	Visual	Liq. Transp.	Liq. Transp.	Liq. Transp.
SAE Grade		10w	30	50
Density 15° C, Kg/l	ASTM D 4052	0,88	0,895	0,895
Viscosity 100° C, Mm2/s	ISO 3104	6,3	11,5	20.5
Viscosity 40° C, Mm2/s	ISO 3104	40,3	110	245
Viscosity ndex	ISO 2909	104	98 mín	98 min
Flash point, °C	ISO 2592	208	225 mín	225 min
Pour point, °C	ASTM D 97	-21	-21	-19
T.B.N., mg. KOH/g	ASTM D 2896	9.5	9,5	9,5

Quality level

- API SF/CF
- CCMC D2
- ALLISON C-4
- CAT TO-4

Revisión: 160803



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