

REPSOL

TRANSMISSIONS AND BOXES

TRANSMISION TO-4 SAE 10W, SAE 30 & SAE 50

Description

A lubricating oil formulated especially to satisfy the requisites of the CATERPILLAR, ALLISON and KOMATSU specifications, which are applicable in servotransmissions, clutches and brakes, as well as in end commands, crowns and differentials (according to the SAE grade). Also in some special hydraulic applications such as in the case of the 10W grade.

Qualities

- Avoids slips in transmission.
- Great capacity to withstand charges and anti-wearing properties.
- Increases the useful life of the clutch discs and softens brake manoeuvres.
- It renders possible a greater drag and start force of the machines.
- Compatibility with joints.
- Excellent anti-corrosive properties.
- Its use is not recommendable in the engine.

Quality Level

- CATERPILLAR TO-4
- ALLISON C-4
- API GL-3
- API CF/CF-2
- KOMATSU MICRO-CLUTCH

Technical Characteristics

	UNITS	METHOD	VALUE	VALUE	VALUE
SAE Grade			10W	30	50
Density at 15°C	g/cm ³	ASTM D 4052	0,8800	0,8940	0,9100
Viscosity at 100°C	cSt	ASTM D 445	5,5	11,4	17,4
Viscosity at 40°C	cSt	ASTM D 445	32	105	200
Viscosity at -20°C	cp	ASTM D 5293	3.500 max.	---	---
Viscosity index	-	ASTM D 2270	105 min.	96 min.	95 min.
Flashing point, open cup	°C	ASTM D 92	190 min.	230 min.	240 min.
Freezing point	°C	ASTM D 97	-27	-21	-18
T. B. N.	mg KOH/g	ASTM D 2896	11	11	11

Available in

SAE 10W: 875 Kg. containers and 185 Kg. Drums
SAE 30 y SAE 50: 185 Kg. Drums

Hazard Identification

This product is not classified as toxic or hazardous under current legislation.

Handling

Certain minimum precautions to avoid prolonged contact with the skin should be taken when handling. The use of gloves, visors or masks is recommended in order to avoid splashes.

Health and safety hazards

Inhalation: Minimum risk of inhalation as it is a non-volatile product.

Ingestion: Does not provoke vomiting. Drink water. Seek medical assistance.

Contact with Skin: Wash with abundant water and soap.

Eyes: Wash with abundant water.

General measures: Seek medical assistance.

Fire fighting measure

No special measures are required.

Fire control: Foams, dry chemicals, CO₂, water spray. Do not apply water jet directly as this may cause the product to spread.

Environmental precautions

Danger of physical contamination in the case of spillage (water flows, coastal areas, the ground, etc.) due to its floating capacity and oily consistency which may cause damage to fauna and flora with which it comes into contact. Avoid its penetration into water containers or outlets.

Decontamination and cleaning: Treat as an accidental oil spillage. Avoid spreading by using mechanical barriers and eliminate using both physical and chemical means.

Emergency telephone number. Instituto Nacional de Toxicología 915620420

A safety data file exists.

Unless otherwise specified, the values cited in technical characteristics should be considered as typical.