

UNITRANS FD1 SAE 60

Heavy Duty Off-Highway Final Drive and Axle Oil

Description

UNITRANS FD1 SAE 60 is a premium heavy-duty gear lubricant specifically designed for use in final drives and axles of modern caterpillar off-road equipment operating in severe service condition, which offers significantly improved protection for gear, bearing in level gears, and differential. It has been developed for continuous use in extreme ambient temperatures in off-road vehicle.

Applications

- ▶ Recommended for use on all Caterpillar Final Drives & Axles that require Cat FD-1 lubricants specifications.
- ▶ Compatible on transmissions that require TO-4 lubricants specifications that do not contain friction material.
- ▶ Suitable for heavy load operation condition of haul truck.
- ▶ Suitable Off-highway application in wide range of operation temperature.
- ▶ Extended drain interval applications.
- ▶ It is not recommended for use in diesel engines, transmissions or hydraulic systems.

Specification Meets

Caterpillar FD 1

Advantages

- ▶ Excellent protection against rust and copper corrosion.
- ▶ Excellent oxidation inhibitors for control oxidation and deposit formation.
- ▶ Good foaming stability.
- ▶ Protect both ferrous and non-ferrous metals from corrosion.
- ▶ Compatible with mineral based oil gear oils.
- ▶ Compatible with the seal and gasket materials.

Typical Data of UNITRANS FD1 SAE 60

Characteristics	Unit	UNITRANS FD1 SAE 60	Test Method
Color		L3.0	ASTM D 1500
Density @ 15 °C	kg/L	0.8941	ASTM D 4052
Kinematic Viscosity @ 40 °C	mm ² /s	308.75	ASTM D 445
Kinematic Viscosity @ 100 °C		23.97	
Viscosity Index		98	ASTM D 2270
Flash Point (COC)	°C	268	ASTM D 92
Pour Point	°C	-18	ASTM D 97
Foaming Test			ASTM D 892
Seq.I :24°C	ml	0/0	
Seq.II :93.5°C	ml	0/0	
Seq.III:24°C after 93.5°C	ml	0/0	

* the typical characteristic mentioned represent mean values