SPINTA TO-4 SAE 50

Product Code: SP-TR-SAE50

Transmission and Final Drive Lubricant for Construction Equipment

PRODUCT DESCRIPTION

SPINTA TO-4 SAE 50 is formulated for transmissions, final drives, oil-immersed brakes and hydraulic systems of earth-moving and construction equipment operating under severe loads. Its SAE 50 viscosity provides a strong lubricating film and reliable component protection at elevated operating temperatures.

APPLICATIONS & BENEFITS

Compatibility Formulated for compatibility with ferrous and non-ferrous materials used in modern transmissions and oil-immersed brakes.

Anti-Wear Protection High shear stability supports stable viscosity and protection of heavily loaded components.

High-Temperature Protection SAE 50 viscosity supports lubricant film strength in severe high-load and high-temperature service.

KEY PERFORMANCE BENEFITS

Improved Protection Helps protect friction discs, powershift transmissions, final drives and differential gears.

Off-Road Versatility Suitable for the listed Caterpillar, Komatsu, Allison, Eaton-Fuller, ZF and related applications.

Wet-Brake Performance Friction characteristics help reduce slip, vibration and unwanted noise in compatible oil-immersed brakes.

SPECIFICATIONS & PERFORMANCE LEVELS

Meets or exceeds the following specifications and performance levels; OEM/application claims as indicated:

- Caterpillar TO-4
- Caterpillar TO-2
- Allison C-4 (off-road)
- Komatsu KES 07.868.1
- Eaton-Fuller
- Euclid
- Vickers M-2950-S
- Tremac-TTC
- MIL-PRF-2105E
- ZF TE-ML 02B / 05B
- ZF TE-ML 07A
- ZF TE-ML 12B / 12L / 12N / 16F
- ZF TE-ML 17B / 19C / 21B
- DD DFS93K219.01
- Arvin Meritor 0-76-N

Recommendation: Always refer to the equipment manufacturer's operating and maintenance manual to confirm the required TO-4 performance level and SAE viscosity grade before use.

TYPICAL PHYSICAL & CHEMICAL CHARACTERISTICS

Property	Test Method	TO-4 SAE 50
SAE Grade	-	50
Appearance	Visual	Clear
Density @ 15°C, kg/dm³	ASTM D 4052	0.900
Kinematic Viscosity @ 40°C, cSt	ASTM D 445	190.0
Kinematic Viscosity @ 100°C, cSt	ASTM D 445	19.0
Viscosity Index	ASTM D 2270	100
Flash Point, °C	ASTM D 92	240
Pour Point, °C	ASTM D 97	-24

Note: The values shown above are typical for normal production and may vary within normal manufacturing tolerances. They do not constitute a product specification or contractual limit.

STORAGE, HEALTH & ENVIRONMENT

STORAGE

Store under cover whenever possible. If outdoor storage cannot be avoided, containers should be protected from rain and water infiltration. Avoid temperatures above 60°C, direct sunlight and freezing conditions.

HEALTH & SAFETY

When properly used and handled in accordance with standard personal hygiene practices, the product is not expected to present adverse health effects under normal conditions of use. Refer to the corresponding SPINTA Safety Data Sheet (SDS) for detailed precautions and first-aid information.

ENVIRONMENT

Do not discharge new or used product into drains, sewage systems, soil or watercourses. Used product must be collected and delivered to an authorized collection or disposal facility in accordance with applicable regulations.

ADDITIONAL INFORMATION

Safety Data Sheet (SDS): The corresponding SPINTA Safety Data Sheet is available separately and should be consulted before handling or using the product.

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