



Finnexx SPINUS FD-1

Extra High Performance Final Drive and Axle Oil

PRODUCT DESCRIPTION

Finnexx Spinus FD-1 is an extra high performance drive train lubricant that meets the requirements of the Caterpillar FD-1 standard. Finnexx Spinus FD-1 is specifically engineered to provide optimum component life when used as recommended in off-highway truck and bulldozer final drives, axles, bevel gears, and differentials, especially those operating under high loads and extreme temperatures. Finnexx Spinus FD-1 is formulated from advanced base oils and the latest additive technology to enable extended oil drain intervals and prolong the life of bearings and gears.

Performance Features and Benefits

Finnexx Spinus FD-1 has excellent load carrying, anti-wear and EP performance, extending component life and reducing maintenance costs. It has optimized thermal and oxidation protection to give maximum oil life. Finnexx Spinus FD-1 has outstanding low-temperature fluidity.

Applications

Finnexx Spinus FD-1 is suitable in all Caterpillar equipment that requires the CAT FD-1 lubricant specification. Application also includes Off-highway truck front wheels, differentials and final drive as well as other construction equipment types.

Specification and Approvals

Caterpillar FD-1

Typical Physical Characteristics

Product Name	Test Methods	SAE 50	SAE 60
Kinematic Viscosity at 40°C mm ² /s	ASTM D445	219.8	310
Kinematic Viscosity at 100°C, mm ² /s	ASTM D445	19.15	31.0
Viscosity Index	ASTM D2270	98	100



Density at 15°C, kg/m ³	ASTM D4053	890	895
Flash Point PMCC, °C	ASTM D93	264	220
Pour Point, °C	ASTM D97	-20	-10

Elemental Analysis

Boron	ICP	0.0097	0.0097
Calcium	X-Ray/ICP	0.028	0.028
Nitrogen	ASTM D5762	0.104	0.104
Phosphorous	X-Ray/ICP	0.031	0.031
Sulphur	X-Ray	0.145	0.145

Note these are typical physical characteristics and there will be variations within our strictly controlled manufacturing tolerances. For more details on the manufacturing controls contact your Finnex representative

Health and Safety

Guidance on Hand and Safety are available on the appropriate Material Safety Data Sheet which can be obtained from your Finnex representative.