

FINAL DRIVE FLUID

PRODUCT DESCRIPTION

Bel-Ray® Final Drive Fluid is formulated with technology to meet Caterpillar FD-1 requirements for final drive and axle oil (FDAO) used in Caterpillar final drives, axles, and differentials. Designed for mining, construction, and quarrying equipment, it delivers wear protection for highly loaded gears and bearings operating in rigorous and severe conditions. Final Drive Fluid provides superior oxidation control and corrosion protection to components to enable extending drain intervals.

PRODUCT FEATURES and BENEFITS

- Formulated for superior wear protection to extend gear and bearing component life in Caterpillar equipment operating in demanding and severe duty applications.
- Excellent oxidation stability supports longer oil life and extended oil drain intervals at high operating temperatures.
- Outstanding rust and copper corrosion protection for metal parts to maximize equipment component life.
- Reliable foaming resistance protects against the damaging effects of air.
- Excellent compatibility with an array of oil seals to support long-term equipment integrity.

APPLICATIONS

Bel-Ray Final Drive Fluid is recommended for use in all Caterpillar final drives, axles, and differentials where FD-1 fluid is specified. It can be used in Caterpillar haul trucks, wheel scrapers, and wheel and track loaders, bulldozers, scrapers, fellers, and skidders. Refer to Caterpillar Operation and Maintenance Manuals or Caterpillar Service Publication SEBU6250 for use in specific machines. This product should NOT be used in compartments with friction materials, unless FDAO is specified. This product should NOT be used in engine compartments.

SPECIFICATIONS and APPROVALS

Bel-Ray Final Drive Fluid meets or exceeds the requirements of Caterpillar FD-1.

DISTRIBUTED BY:

Calumet Branded Products, LLC
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Technical Services: 317-328-5660
www.belray.com

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TECHNICAL DATA SHEET



PRODUCT DATA

Typical Properties		
Property	Test Method	SAE 60
Density @ 15°C (g/mL)	ASTM D4052	0.8945
Viscosity @ 40°C (cSt)	ASTM D445	283
Viscosity @ 100°C (cSt)	ASTM D445	22.8
Viscosity Index	ASTM D2270	98
Brookfield Viscosity @ -10°C (cP)	ASTM D2983	20,680
Flash Point, (°C)	ASTM D92	239
Pour Point, (°C)	ASTM D97	-21
Copper Corrosion, 3 h @ 100°C (Rating)	ASTM D130	1a
Foam Test, Sequence I, Tendency/Stability (mL/mL)	ASTM D892	20/0
Foam Test, Sequence II, Tendency/Stability (mL/mL)	ASTM D892	40/0
Foam Test, Sequence III, Tendency/Stability (mL/mL)	ASTM D892	10/0

HEALTH and SAFETY

Health and safety recommendations for products can be found on the Safety Data Sheet (SDS) at www.belray.com

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