



Axle FD-1 80W-140

Multigrade FD-1 Final Drive Lubricant

Description

Castrol Axle FD-1 80W-140

Castrol Axle 80W-140 is a synthetic blend FD-1 type final drive fluid that balances high-temperature wear protection for gears and bearings with low temperature flow properties to provide maximum final drive performance and durability. Its synthetic blend formulation coupled with a special additive system optimized for final drive applications allows for extended drain intervals with regular used oil analysis.

Advantages

- Extended Service Intervals versus TDTO and mineral oil based monograde FD-1 fluids.
- Up to 6000 hours drain interval with regular oil analysis
- Superior gear wear protection - Excellent gear protection and reduced wear as evidenced by reduced weight loss in bench testing
- Synthetic blend formula allows all season flexibility

Warranty and Protection Requirements:

- Meets all manufacturers' warranty requirements for applications requiring a final drive fluid meeting the Caterpillar FD-1 specification.

OEM Specifications:

- Meets or exceeds Caterpillar FD-1 requirements

Typical Physical Characteristics

Tests	Method	Typical Results Axle FD-1 80W-140
Kinematic Viscosity at 40° C, cSt	ASTM D-445	326
Kinematic Viscosity at 100° C, cSt	ASTM D-445	31.6
Viscosity Index	ASTM D-2270	135
Flash Point, °C (°F)	ASTM D-92	240(464)
Pour Point, °C (°F)	ASTM D-97	-27(-17)
Brookfield Viscosity, -20°C, cP	ASTM D-2983	44,600
20 Hr KRL Shear Test After Shear cSt @ 100°C	CEC-L45-20	31.4
% Viscosity Loss		-0.66
FZG Gear Scuffing, Pass Load Stage	ASTM D-5182	12
FZG Gear Wear, mg wt Loss	ASTM D-4998	13
Gravity, API	ASTM D-287	31.4
Pounds per Gallon	ASTM D-287	7.23
Specific Gravity @60F, g/ml	ASTM D-1298	0.8679

* Due to continual product research and development, the information contained herein is based on products purchased in the U.S subject to change without notification. Typical properties may vary slightly.

Storage

All packages should be stored under cover. Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and damage to drum markings. Products should not be stored above 60°C, exposed to hot sun or freezing conditions.

Part Numbers and UPCs

Grade	Axle FD-1 80W-140
5 gal pail Part No.	05312
55 Gal. Drum Part No.	55031
260 Gal. Tote Part No.	26022
Bulk	0680

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