

# CHAMPION AXLE FD-1 SAE 50

This is a specific and proven performance SAE 50 heavy duty Final Drive & Axle Oil (FDAO) for use in modern highly loaded Caterpillar off road equipment in extreme severe service where lubricants meeting CAT FD-1 are recommended.

## APPLICATIONS

A Final Drive & Axle Oil (FDAO) is an oil that has been designed for use in final drives, axles, bevel gears, and differentials in which gear and bearing loads are high and submitted to extreme high temperatures. The CAT FD-1 specification is mandatory for highly loaded Caterpillar machines working under extreme conditions.

## FEATURES

Higher thermal oxidation stability: higher machine productivity  
Higher corrosion protection: extended component lifespan  
Higher load carrying capacity: for use in severe service

## SPECIFICATIONS

CATERPILLAR FD-1

## TYPICAL CHARACTERISTICS

Test	Method	Unit	Average results
Density at 15°C	ASTM D4052	g/ml	0.895
Kinematic viscosity at 40°C	ASTM D445	mm <sup>2</sup> /s	208
Kinematic viscosity at 100°C	ASTM D445	mm <sup>2</sup> /s	18.3
Viscosity index	ASTM D2270		96
B.N. (HClO4 method)	ASTM D2896	mg KOH/g	3.1
Pour point	ASTM D6892	°C	-30

We reserve the right to alter the general characteristics of our products in order to let our customers benefit of the latest technical evolutions.

### CHAMPION CHEMICALS NV

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