Axle oil

Performance Overview

Maxtop axle oil is usually made from mineral oil fractions through processes such as dewaxing or adding additives such as viscosity increase and pour point reduction. It has good low-temperature fluidity and cotton ball oil absorption rate. Universal axle oil has good viscosity-temperature and shear stability and is suitable for lubrication of sliding bearings of railway freight cars and steam locomotives.

Features

01

Good oiliness: Axle oil has good oiliness and can work under the conditions of rough journal surface and boundary friction.

02

Low freezing point: Since trains travel from north to south and the temperature changes greatly, the axle oil is required to have a lower freezing point.

03

High Viscosity Index: Axle oil has a higher viscosity index to suit different operating temperatures.

04

Good anti-wear performance : Provides good protection for mechanical systems.

05

High Viscosity Index: Axle oil has a higher viscosity index to suit different operating temperatures.

06

Excellent anti-rust, anti-corrosion, anti-wear and repair properties: increase the service life of mechanical moving parts

Application Scenario

1: Rail transport
Train axle: used for lubrication and protection of train axle, improve the durability and safety of train axle.
2: Subway
Subway axle: used for the lubrication and protection of subway axle, enhance the structural stability and safety of subway vehicles.
3: Trams
Tram axle: used for the lubrication and protection of tram axles, extending the service life and safety of tram axles.

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Axle oil performance indicators

Project		Quality indicators		
		Winter	Summer use	General
Kinematic viscosity, mm² /s	40℃	30~40	70~80	Report
Kinematic viscosity, mm² /s	50℃	Report	Report	31~36
Kinematic viscosity (-40℃, shear rate 3s), Pa.s	not more than	150	-	175
Viscosity index	not less than	-	-	95
Flash point (open), ℃	not less than	145	165	165
Pour point, ℃	not higher than	-40	-10	-40
Pour point, ℃	not higher than	Report	Report	Report
Volatilization weight loss, % (m/m)	not more than	-	-	3.5
Shear stability50℃ kinematic viscosity decrease rate. %				Measured
Corrosion test (steel sheet, 100℃, 3h)		qualified	qualified	qualified
Water soluble acid or base		none	none	none
Moisture, %	not more than	trace	trace	trace
Mechanical impurities, %	not more than	0.05	0.05	0.05

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