Gear bearing circulating oil (PAG type)

Performance Overview

Maxtop gear bearing circulating oil (PAG type) is made of polyalkylene glycol synthetic oil as base oil, and added with extreme pressure, anti-wear, antioxidant and other additives. Gear bearing circulating oil is a highly efficient lubricating oil designed for closed cycle lubrication scenarios such as gear box and bearing system. The core function is continuous lubrication, heat dissipation and cooling, anti-wear and prolong equipment life. It can cover key parts such as gear meshing surface and bearing raceway through the circulation system to ensure stable operation of equipment under harsh conditions such as high speed, heavy load and high temperature.

Application Scenario

Gearboxes, bearings, circulating oil systems, hydraulic systems, high temperature applications, low temperature start-up, food and beverage industry, automotive industry, paper industry, textile industry, chemical industry.

Features

01

Excellent viscosity-temperature performance.

02

Oil status can be measured: through oil detection (such as iron content, viscosity changes) to predict equipment failure.

03

Excellent low-temperature fluidity ensures the normal start-up and operation of the gearbox at low temperatures. Excellent heat-resistant stability prevents oil from deteriorating at high temperatures. Good extreme pressure and anti-wear properties reduce gearbox wear. No coking or sedimentation when used for a long time at high temperatures.

04

Compared with mineral oil gear oil, it can improve efficiency, reduce power consumption, reduce wear, extend service life and oil change cycle, thereby reducing maintenance costs and energy consumption.

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Gear bearing circulating oil (PAG type) performance indicators

Project	Quality indicators						
Viscosity grade	100	150	220	320	460	680	1000
Kinematic viscosity (40℃), mm2/s	101.5	156.4	225.3	330.5	428.7	696.5	1015.6
Viscosity Index	193	197	213	215	224	243	262
Flash point (open), ℃	265	250	258	255	264	258	270
Pour point, ℃	-42	-38	-37	-36	-33	-29	-27
Copper corrosion (100℃, 3h)/level No more than	1b						
Gear machine experiment/Failure level not less than	>12						
Load-bearing capacity (four-ball method) PB value, N not less than	1577.8						
Load-bearing capacity (four-ball method) PD value, N not less than	1960						

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