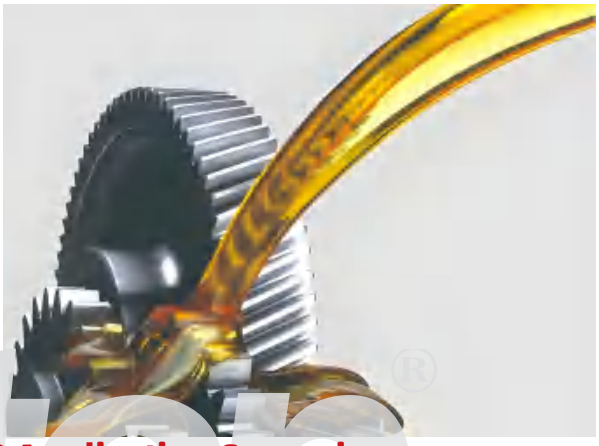
Heavy-duty industrial gear oil (L- CKD)

Performance Overview

Maxtop Heavy Duty Industrial Gear Oil (L-CKD) is used in heavy-duty industrial gears and can effectively protect the gears from running smoothly under heavy load conditions. Heavy Duty Industrial Gear Oil uses a highly refined paraffin-based base oil with a high viscosity index and a variety of additives such as high-quality extreme pressure, anti-wear, oiliness, anti-oxidation, anti-corrosion, anti-rust, and defoaming agents. It is carefully balanced and selected through ultra-long weathering aging tests. It is refined to produce no sludge and sediment, less color change, less viscosity change, less acid value increase, and no significant change in extreme pressure performance.



Features

01

Good load-bearing capacity ensures smooth gear operation, reduces gear abrasion, and effectively reduces operating noise.

02

It has good thermal stability and strong antioxidant properties, and can reduce the generation of various harmful oxides and sludge.

03

Effectively inhibit the corrosion and wear of components.

04

Good oil-water separation ability and anti-foaming performance, long service life.

05

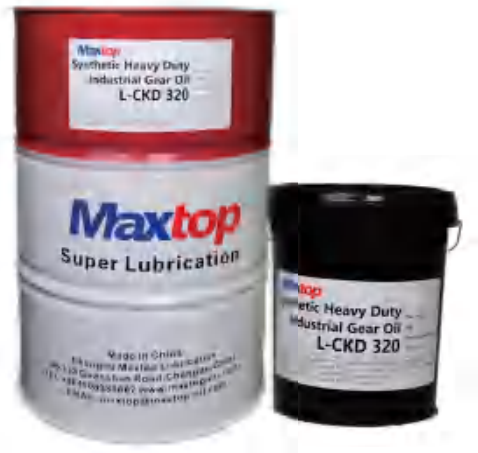
In cold regions in winter, using electric heating rods to assist in heating the gear oil will not form carbon deposits around the heating rods, nor will it form sludge and sediment in the gear oil.

06

Stable at high temperatures to prevent sludge and oxide formation.

Application Scenario

Suitable for gears with tooth surface contact stress less than 1100N/mm² and heavy-duty gears that require the use of oils with excellent anti-emulsification properties;Suitable for closed gear transmission systems with extremely harsh working conditions, high temperature, impact and water-containing parts in industries such as steel, cement, electricity and mining;Suitable for integrated circulating lubrication systems of spur gears, helical gears, spiral bevel gears, bearings, etc.



No. 138, Guanshan Road, Shuangliu District, Chengdu, China (Sichuan) Pilot Free Trade Zone
TEL：+8613541155698 EMAIL：maxtop@maxtop-oil.com
TEL：+864008330667 Website：www.maxtop-oil.com

Heavy Duty Industrial Gear Oil (L-CKD) Typical Data

Project	Quality indicators							
Viscosity grade (GB/T 3141)	68	100	150	220	320	460	680	1000
Kinematic viscosity (40℃)/(mm2 / s)	61.2~74.8	90.0~110	135~165	198~242	288~352	414~506	612~748	900~1100
Appearance	transparent							
Kinematic viscosity (10 0℃)/(mm2 / s)	Report							
Viscosity Index Not less than	90							
Pour point/℃ not higher than	-12		-9				-5	
Flash point (open)/℃ not less than	180	200						
Moisture (mass fraction) % not more than	trace							
Mechanical impurities (mass fraction) % not more than	0.02							
Copper strip corrosion (100 ℃ , 3h)/level No more than	1							
Liquid phase corrosion test (24h)	Rust-free							
Foaming properties (foaming tendency/foaming stability) (ml/ml)								
Procedure I (24℃) not more than	50/0					75/10		
Program II (93.5℃) No more than	50/0					75/10		
Procedure III (after 24℃) not more than	50/0					75/10		
Extreme pressure performance (Timken test machine method) OK load value /N (1b) not less than	267（60）							
Demulsibility (82℃)								
Water in oil (volume fraction)/% not more than	2.0					2.0		
Emulsion layer/mL not more than	1.0					4.0		
Total separation water/mL not less than	80.0					50.0		
Shear stability (gear machine method) Kinematic viscosity at 40 ℃ after shearing (mm 2 /s) not less than	Within the viscosity grade range							
Four-ball machine test								
Sintering load (P)/N9 (kgf) not less than	2450（250）							
Comprehensive wear index/N (kgf) not less than	441（45）							
Wear spot diameter (196N, 60min, 54 ℃, 1800r/min)/mm not more than	0.35							
Sediment control, direct heating by electric heating rod, 120℃*460h	No tar on the heating rod, no sediment in the oil, no staining on the utensils							
Carrying capacityGear machine test /failure level not less than	12					>12		

The above data are typical values of current products. The data of each batch of products in the future may fluctuate within the allowable range of Maxtor quality standards.

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