

QATOL REDLINE CLP INDUSTRIAL GEAR OILS (CLP)

Heavy duty - EP - industrial gear oils of highest performance

PRODUCT DESCRIPTION:



QATOL CLP INDUSTRIAL GEAR OILS are premium quality extreme pressure gear lubricants, manufactured from the highest quality base oils combined with extreme pressure additives of the Sulphur-phosphorous type. This combination provides very high load-carrying properties and affords maximum protection for gear teeth in severe service conditions.

QATOL CLP INDUSTRIAL GEAR OILS are extra high performance gear oils having outstanding extreme pressure characteristics and load carrying properties, intended for use in all types of enclosed gear drives with circulation or splash lubrication systems. QATOL CLP INDUSTRIAL GEAR OILS are designed to stay ahead of the changing needs of gearbox technology. Gearbox technology design trends are towards smaller units with similar power throughput. This increase in power density places increased demands on gear oils. QATOL CLP INDUSTRIAL GEAR OILS are formulated to meet the stress by providing extra protection for gears, bearings and seals.

QATOL CLP INDUSTRIAL GEAR OILS formulation is able to provide maximum wear and corrosion protection while maintaining compatibility with common gearbox seal materials. QATOL CLP INDUSTRIAL GEAR OILS helps to maintain gearbox seal integrity thereby preventing oil leaks and keeping contamination out. By protecting the gears, bearings and seals, QATOL CLP INDUSTRIAL GEAR OILS can improve equipment reliability and increase productivity.

APPLICATIONS:

QATOL CLP INDUSTRIAL GEAR OILS are recommended for all industrial applications where the machinery manufacturer recommends the use of CLP type oil. Highly-stressed bearings, joints, pressure spindles, spur and worm drive gears are reliably, effectively and economically lubricated even at elevated temperatures. The use of these oils guarantees the quiet and smooth running of machinery along with optimum operational reliability.

QATOL CLP INDUSTRIAL GEAR OILS are used in a wide range of industrial and marine applications, especially spur, helical, bevel and worm gearing. Specific applications include:

Industrial gearing for conveyers, agitators, dryers, extruders, fans, mixers, presses, pumps (including oil well pumps), screens, extruders and other heavy duty applications.

Marine gearing including main propulsion, centrifuges, deck machinery such as winches, windlasses, cranes, turning gears, pumps, elevators and rudder carriers.

Non-gear applications include shaft couplings, screws and heavily loaded plain and rolling contact bearings operating at slow speeds.

FEATURES AND BENEFITS:

- Enhanced gear wear protection from micro pitting:
- Less gear and bearing wear resulting in less unexpected downtime.
- Reduced debris denting from generated wear particles:
- improvement in bearing life reducing bearing replacement costs and improving productivity
- Improved bearing wear protection:
- Improved bearing life resulting in higher productivity.
- Outstanding compatibility with a range of seal materials:

- Reduced leakage, oil consumption and contamination ingress helping to reduce maintenance, extend gearbox reliability and higher productivity.
- Excellent resistance to oil oxidation and thermal degradation:
- Helps extend lubricant life with lower lubricant and lubrication costs and reduced scheduled downtime.
- Excellent resistance to oil oxidation and thermal degradation:

FEATURES AND BENEFITS

- Cleaner systems and reduced maintenance because of minimal sludge and deposit formation.
- Wide range of applications:
- Fewer grades of lubricant required because of wide range of application, leading to lower purchase and storage costs and less danger of using wrong lubricant.
- Optimized resistance to rust and corrosion of steel and corrosion of copper and soft metal alloys:
- Excellent protection of machine parts, with reduced maintenance and repair costs.
- Resistance to foaming and emulsion formation:
- Effective lubrication and problem free operation in the presence of water contamination or in equipment prone to oil foaming.

SPECIFICATIONS:

- DIN 51517-3 (2004):CLP
- ISO 6743-6 and ISO 12925-1: CKC/CKD
- US Steel 224
- AGMA 9005-D95/E02: EP
- David Brown S1 53.101

KEY PROPERTIES:

Properties	Unit	Value							Test Method
ISO Viscosity Grade		68	100	150	220	320	460	680	
Viscosity @ 40 °C	mm ² /s	70	100	151	215	310	463	664	ASTM D-445
@ 100 °C	mm ² /s	9.0	11.0	15.0	19.0	24.0	30.0	38.5	ASTM D-445
Viscosity Index		98	98	98	95	98	95	97	ASTM D-2270
Density @ 35 °C	kg/m ³	871	875	881	886	891	896	893	ASTM D-4052
Flash Point	°C	232	234	235	236	242	260	280	ASTM D-92
Pour Point	°C	- 18	- 15	- 15	- 15	- 12	- 12	- 9	ASTM D-97
Neutralization no.	mg KOH/g	0.4	0.4	0.4	0.4	0.4	0.4	0.4	ASTM D-974

AVAILABLE PACKAGES: 208L, 25L, 20L,