LUKOIL STEELO PG

fully synthetic high-performance industrial gear oil based on non-water-miscible polyglycols for extreme operating conditions

APPROVALS

MEETS REQUIREMENTS

DIN 51517-CLP-PG
ISO 12925-1 L-CKT
Provisions of Timken Ltd. for rolling bearings (OK load 60 lbs)
Failure load level DIN ISO 14635-1 A/8,3/90-M:>12

PRODUCT DESCRIPTION

The high-polarity base fluid with modern additives guarantees optimum lubrication, very good resistance to ageing, excellent foaming behaviour and favourable viscosity-temperature behaviour. The good low-temperature properties ensure easy, wear-free start up even under arctic conditions. The high viscosity index and effective, modern EP-AW additives provide protection even under the most severe thermal stress. The natural viscosity index of the base oil ensures absolute shear stability over long operating periods, energy efficiency through low friction, low-noise running at high temperatures and extended oil life.

APPLICATION

For gears (hypoid gearing limited) and oil-lubricated bearings of all kinds which are operated under particularly harsh operating conditions and at extreme temperatures (such as critical gears, dry end of paper-making machines, calender bearings, plastic mixers, textile machines, wind energy plants etc.).

The following should be noted:

• Not miscible with mineral oil; pay attention to the accompanying oil-changing guidelines.

• Compatible with dual component lacquers (e.g. epoxy)

• Single component artificial resin lacquers may be attacked.

• **LUKOIL STEELO PG** oils can be removed from the waste water flow with separators.

• Water absorption of **LUKOIL STEELO PG** oils are higher than with ester, mineral, or PAO oils

• In a humid climate, stationary gears should be turned regularly

• Not always suitable for use with friction pairs made of or containing aluminium

TYPICAL TEST DATA

PROPERTY	Units	Test methods	LUKOIL STEELO PG	
			220	460
density/15°C	kg/m³	DIN 51757	1072	1075
flash point COC	°C	ISO 2592	>240	>280
viscosity class	ISO VG		220	460
Viscosity/40°C	mm²/s	DIN 51562/T1	220	460
Viscosity/100°C	mm²/s	DIN 51562/T1	36.8	75.1
Pourpoint	°C	DIN ISO 3016	<-39	<-39

The information given in the typical data does not constitute a specification but is an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved by OOO “LLK-International”

Further information can be obtained from Technical Marketing Service Lubricants technics.lubes@lukoil.com

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Oil-changing Guidelines

Depending on their applications, gear oils are manufactured from different base liquids (mineral oils, poly alpha olefins, esters, polyglycols) and may also include additives (ashless or ash forming).

Due to the differing compositions of the oils, very careful consideration should be given to the mixing of products, which should not be done under any circumstances if the exact nature of the oils is unknown.

Topping up the oil with a different type of oil, or mixing two incompatible types of oil when carrying out an oil change, may lead to various reactions that could render the oil unusable.

Contact our technical support department who will be pleased to advise you. To avoid any undesirable changes in the oil composition, the oil-change should be carried out in the following order:

1. Completely drain the gear oil at operating temperature.
2. Fill the new oil to the minimum oil level mark. Let the gearbox run until the oil has circulated several times.
3. Drain the oil as in point 1. If there is an oil filter, change it. Fill with new oil.
4. Use separate oil maintenance equipment.

For safety's sake, we recommend that you take an oil sample (100ml) after approx. one hour's running time and send it to our laboratory for analysis.

This will allow us to establish whether the oil-change has been successful.

We recommend that oil samples are taken regularly to determine the oil change interval and guarantee the safe operation of the gearbox. O

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