

## TRANSOL CLP 460

**Quality class:** ISO 12925-1 CKC  
**Viscosity grad:** ISO VG: 460

### GENERAL FEATURES:

Transol® CLP 460 industrial gear oils are manufactured from selectively refined mineral oils, they contain lead free additives improving lubricating properties (sulphur-phosphor type) and a set of anticorrosive and antifoaming additives as well as additives increasing resistance to oxidation.

It is featured by:

- protection abilities from excessive operational wear to gear elements i.e. toothed wheels as well as rolling and sliding bearings in normal operation and in case of stroke loads,
- protection abilities of gear elements made from steel and non-ferrous elements from corrosion and chemical impact of oil active ingredients and its oxidation products,
- ability to provide long operation at increased temperatures with no properties compromised which is due to high thermooxidant stability,
- applied antifoaming and demulsifying additives protecting from compromising of lubricating properties due to formation of durable foam and oil-water emulsion.

### APPLICATION:

Transol® oils are intended to lubricate highly loaded mechanical gears of industrial devices often transferring stroke loads e.g. rolling devices in metallurgical machines, construction machines, cement mill machines, lifts and transport devices in shipbuilding industry, machine tools, steam and gas turbine gears, paper industry machines, and other devices operating at temperatures up to 100°C requiring oils with increased resistance of the lubricating film (they contain Extreme Pressure (EP) additives), good thermooxidant stability at higher temperatures and good demulsifying and anticorrosive properties (to iron and non-ferrous metals).

Transol® SP oils can be used when gears are exposed to aggressive environmental influence (water, steam, corrosive gases) and when they are exposed to variable ambient temperatures (cranes, hoisting winches, etc.).



**STANDARDS, APPROVALS. SPECIFICATION:**

FLSmidth MAAG Gear GEARS60752

Meet requirements:  
DIN 51517 part 3,  
US Steel 224,  
AGMA/ANSI 9005-E02  
ISO 12925-1 CKC

PARAMETERS	UNIT	TYPICAL VALUES
Kinematic viscosity at 40°C	mm <sup>2</sup> /s	446
Viscosity index	-	94
Flow temperature	°C	-17
Ignition temperature	°C	246
Corrosiveness to copper 3 h/100°C, corrosion rate	reference sample	1b
Lubricating properties · loaded wear ratio · weld load	daN kG	48 315

**NOTE:**  
Physicochemical parameters listed in the table are typical values. Real values are stated in quality control certificates attached to each product lot.

