

OIL TECH

The Lubrication Specialists

TECHNICAL DATA SHEET

SGL INDUSTRIAL GEAR OIL SYNTHETIC 320 & 460

PRODUCT DESCRIPTION

A high performance synthetic oil designed with a high viscosity index combine Polyalphaolefin (PAO) base oil and Ester fluid to provide outstanding protection to a wide variety of gear and bearing applications, plus trouble free oil life in high and low temperatures, beyond the capabilities of mineral oils.

This oil has superior resistance to oxidation and sludging, especially at high temperatures, with exceptional resistance to rust and corrosion. It has anti-wear, demulsibility foam control, air release and multi-metal compatibility properties.

APPLICATION

INDUSTRIAL GEAR OIL SYNTHETIC 320 & 460

Filled for life gear boxes, especially high ratio, low efficiency worn gears. Remote location gear-boxes where oil changes are difficult. Heavy duty industrial journals, plain and anti-friction bearings, chain drives, slide guides, ect. Extreme environments like mining, marine and paper milling.

PERFORMANCE

- Excellent high temperature thermal oxidation resistance extends equipment high temperature operating capability.
- High viscosity index maintain viscosity and film thickness at high temperatures.
- Low traction coefficient reduces overall friction, increasing efficiency of gearing.
- Full extreme pressure (EP) High load carrying capability to protect against shock loading.
- Compatible with mineral oils.
- Rapid Air Release
- Good Water Separation.

PERFORMANCE CHARACTERISTICS

US Steel 224
AGMA 9005-D94
DIN 51517 Part 3

David Brown S1.53.101 Type E
AGMA 250.04, 251.02

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TYPICAL INSPECTION

Property	Method	Typical Value	Typical Value
ISO Viscosity Grade		320	460
Viscosity cSt @ 40°C	ASTM D445	320	460
Viscosity cSt @ 100°C	ASTM D445	35	47
Viscosity Index	ASTM D2270	155	160
Pour point °C	ASTM D97	-30	-20
Flash point °C	ASTM D92	270	270
Density at 15 °C	ASTM D4052	0.85	0.86
FZG Load Stage	DIN 51534	12	12
Copper Corrosion 24 hrs @ 121 °C	ASTM D130	1B	1B
Rust Protection	ASTM D665	Pass	Pass
Timken OK Load kg	ASTM D2782	28min	28 min
Four Ball Weld Load, Pass		320 min	320 min