

G-Box GL-4 75W-90

Synthetic Gear Oil



Synthetic



Mechanical transmissions



EP properties



Oxidation Stability



Low-temperature properties

G-Box GL-4 75W-90 is high performance gear oil for heavy duty manual transmissions and rear axles where operations require gear lubricants with excellent load-carrying capability over wide operating temperatures and where extreme pressures are expected. G-Box GL-4 75W-90 is formulated with synthetic base oils and advanced additive technology to provide excellent extreme pressure protection, load carrying capacity, anti-foam performance, corrosion protection, and thermal stability protection.

Applications



- Passenger cars, light- and heavy-duty trucks, busses, vans
- Off-highway industries including: construction, quarrying, and agriculture
- Transmissions and axles and other applications where mild extreme pressure gear oil meeting API GL-4 are recommended
- Not suitable for automatic, manual, or semi-automatic transmissions for which engine oil or automatic transmission fluids are recommended
- Not suitable for limited slip applications

Features	Advantages and Potential Benefits
Good extreme-pressure properties	Reduced gear wear and extended life in transmissions
Excellent frictional properties	Improved smooth shifting performance
Improved thermal and oxidation stability	Reduced deposits and sludge build-up for long transmission life
Good low temperature performance	Oil flows and circulates more quickly at low temperatures to extend transmission life
Rust and corrosion protection	Protection of copper and its alloys for improved gear performance and long component life
Compatible with all common seal materials	Excellent leakages control

Recommendations

- API GL-4

Typical Characteristics

Properties	Method	G-Box GL-4 75W-90
SAE Viscosity Grade	SAE J306	75W-90
Kinematic Viscosity @40°C, mm ² /s	ASTM D445	99,5
Kinematic Viscosity @100°C, mm ² /s	ASTM D445	15,6
Viscosity Index	ASTM D2270	168
Brookfield @-40°C, mPa·s	ASTM D2983	75 000
Flash Point (COC), °C	ASTM D92	203
Pour Point, °C	ASTM D97	-43
Density @15°C, kg/m ³	ASTM D4052	885

G-Box GL-4 75W-90 performance benefits



Prolonged gear life

Good wear protection – damaged area due to scoring 6.3 times lower (FZG pitting test, C/9/90);
Deposits build-up control – oxidation stability 8.8 times better (CEC-L-48-A-00 Apparatus B)

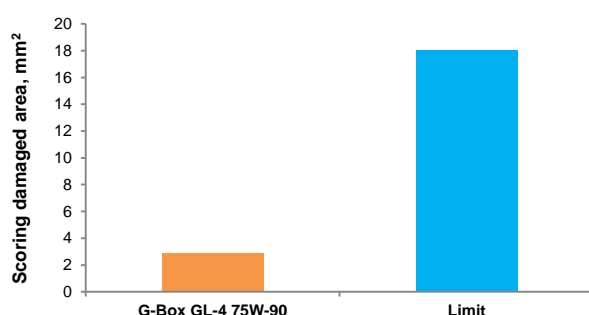
Leakage control

Effect on seals materials 5 times lower (VDA 675 301 (70 ACM 121433))

Excellent synchromesh unit performance

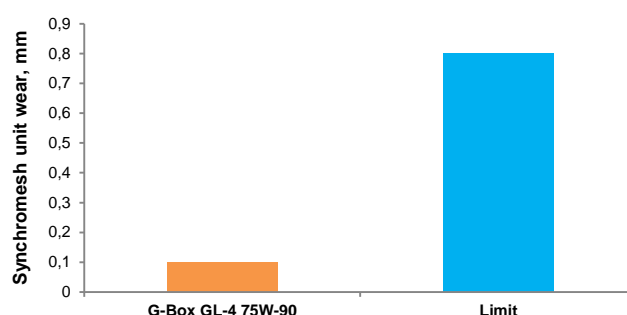
Smooth shifting performance – coefficient of friction after 100k gear changes 13% higher (ZF Synchromesh test);
Synchromesh unit wear 8 lower (ZF Synchromesh test)

Wear protection under high loads*



*FZG pitting test, C/9/90; **ZF Synchromesh test

Synchromesh unit prolonged life*



Health, Safety & Environment

Information is provided for products in the relevant Safety Data Sheet (SDS). This provides guidance on potential hazards, precautions and first-aid measures, together with environmental effects and disposal of used products. SDS's are available upon request through your sales contract office. This product should not be used for purposes other than its intended use.