

## G-Box GL-4/GL-5 75W-90

Fully Synthetic Automotive Gear Oil



Synthetic



Drive axles



Mechanical transmissions



Prolonged drain intervals



High oxidation stability



Wide operating temperatures application



Excellent low temperature performance



Outstanding extreme-pressure properties

**G-Box GL-4/GL-5 75W-90** is extra 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 and shock loading are expected. Its carefully balanced formulation is designed to minimize oxidative sludge and varnish formation, reduce wear, prevent scoring damage, and protect against metal fatigue and spalling damage under shock-load conditions. Fully synthetic formulation provides enhanced oxidation resistance and thermal stability at high temperatures and better low-temperature properties compared with conventional mineral oil-based automotive gear oils, resulting in longer service intervals and better performance over a wider temperature range.

### Applications



- Passenger cars, light- and heavy-duty trucks, busses, vans
- Off-highway industries including: construction, quarrying, and agriculture
- Transmissions and axles and other where high extreme pressure gear oil meeting API GL-4, GL-5 or MT-1 are recommended
- Not suitable for automatic, 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
Outstanding extreme-pressure properties	Increased load-carrying capability for protection against low speed/high torque wear, high speed scoring and spalling
Enhanced frictional properties	Improved smooth shifting performance and potential fuel economy
Excellent shear stability	Viscosity retention even under high stress working conditions contribute to long transmission life
Excellent thermal and oxidation stability	Reduced deposits and sludge build-up help provide outstanding transmission performance even under severe driving conditions
Excellent low temperature performance	Outstanding oil pumpability for quicker lubrication and less gear resistance even in arctic conditions
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

#### Meets the requirements:

- API GL-4
- API GL-5
- API MT-1
- ArvinMeritor 076-N
- Eaton Europe Extended Drain
- MACK GO-J

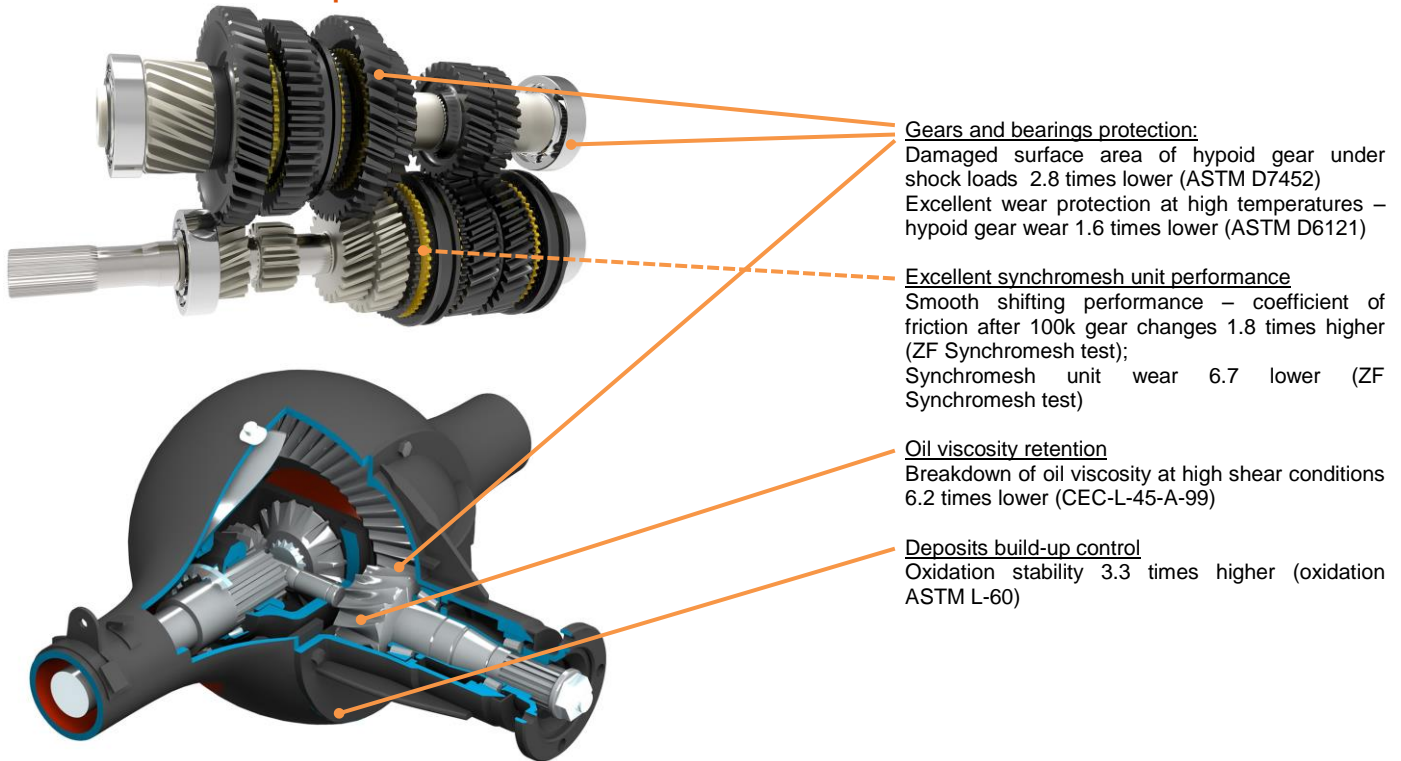
#### Approvals:

- MAN 341 Type E3
- MAN M 3343 Type S
- MIL-L-2104D
- MIL-PRF-2105E
- Scania STO 1:0
- MAN 341 Type Z2
- MAN 342 Type S1
- MB 235.8
- PRI GL 0821
- Volvo 97312
- ZF TE-ML 02B, 05A, 12L, 12N, 16F, 17B, 19C, 21A

## Typical Characteristics

Properties	Method	G-Box GL-4/GL-5 75W-90
SAE Viscosity Grade	SAE J306	75W-90
Kinematic Viscosity @40°C, mm <sup>2</sup> /s	ASTM D445	103,0
Kinematic Viscosity @100°C, mm <sup>2</sup> /s	ASTM D445	15,0
Brookfield @-40°C, mPa·s	ASTM D2983	70000
Viscosity Index	ASTM D2270	155
Flash Point (COC), °C	ASTM D92	184
Pour Point, °C	ASTM D97	-45
Density @15°C, kg/m <sup>3</sup>	ASTM D4052	868

## G-Box GL-4/GL-5 75W-90 performance benefits



### Gears and bearings protection:

Damaged surface area of hypoid gear under shock loads 2.8 times lower (ASTM D7452)  
Excellent wear protection at high temperatures – hypoid gear wear 1.6 times lower (ASTM D6121)

### Excellent synchronesh unit performance

Smooth shifting performance – coefficient of friction after 100k gear changes 1.8 times higher (ZF Synchronesh test);  
Synchronesh unit wear 6.7 lower (ZF Synchronesh test)

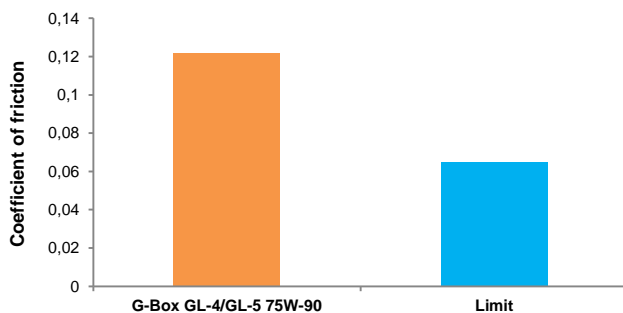
### Oil viscosity retention

Breakdown of oil viscosity at high shear conditions 6.2 times lower (CEC-L-45-A-99)

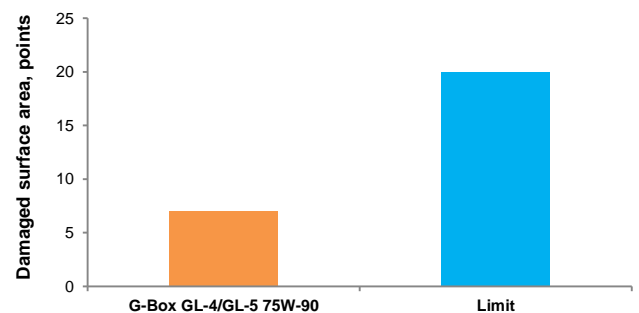
### Deposits build-up control

Oxidation stability 3.3 times higher (oxidation ASTM L-60)

Excellent synchronesh unit performance\*



Excellent anti-scoring properties \*\*



\*ZF Synchronesh Test; \*\*Tectr ASTM D7452

## 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.

ISO 9001

ISO 14001

ISO/TS 16949

OHSAS 18001

CERTIFIED

GAZPROMNEFT – LUBRICANTS, LTD.  
14/3, Krzhizhanovskogo Street, Moscow, 117218 Russia  
Tel: +7 (495) 642-99-69  
Fax: +7 (495) 921-48-63  
[www.gazpromneft-oil.com](http://www.gazpromneft-oil.com)

While the information and figures given here are typical of current production and conform to specification, minor variations may occur. The information contained is subject to change without notice. Gazpromneft-Lubricants accept no liability for any damage or loss resulting from using the product in purposes other than it intended, from any failure to comply with the recommendations or from hazards inherent in the nature of the material. If you require any further information please consult our technical helpdesk. E-mail: [OilSupport@gazprom-neft.ru](mailto:OilSupport@gazprom-neft.ru) 05/2018