



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



Synthetic oil



Mechanical transmissions



High EP properties



High viscosity-temperature properties



Excellent low-temperature parameters



High stability against oxidation

**G-Box GL-4 75W-90** – synthetic transmission oil, intended for use in gearboxes, transfer cases, power take-off boxes and other units, where API GL-4 and lower oil class of application is required. Due to synthetic base components oil has high oxidation stability and good low-temperatures properties. Modern additives pack provides uninterrupted operation of transmission units of machineries in conditions of high loads and severe climate.

### Applications



- Mechanical gearboxes (synchronized and non-synchronized) of passenger cars and trucks
- Transfer cases and power take-off boxes of passenger cars and trucks
- Transmission units, where API GL-4 level of oil performance is required
- It is not recommended to use for heavy-loaded hypoid gears

### Advantages

Adaptive technology of **G-Box GL-4 75W-90** with the use of synthetic components and a complex of functional additives allows to provide high efficiency and productivity of transmissions of various machineries:

| Features                                         | Advantages/Potential Benefits                                                                                                               |
|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| High anti-wear properties                        | Effective protection of working surfaces of the gears and bearings from mechanical destruction- saving on maintenance of transmission units |
| Compatibility with non-ferrous metal parts       | Wear protection of synchronizers- smooth and fast gear shifting                                                                             |
| Excellent low-temperature properties             | Improved oil fluidity- smooth start providing in condition of subzero temperatures                                                          |
| High stability against oxidation                 | Minimization of deposit formation on the parts- maximum mileage between repairs                                                             |
| Excellent viscosity-temperatures characteristics | Optimal viscosity provides performance in a wide range of temperatures – reliable operation of units in severe climatic conditions          |

### Typical Characteristics

| Parameters                                     | Value   | Method     |
|------------------------------------------------|---------|------------|
| Kinematic Viscosity @100°C, mm <sup>2</sup> /s | 15,1    | ASTM D445  |
| Viscosity Index                                | 168     | ASTM D2270 |
| Brookfield Viscosity @-40°C, mPa·s             | 120 000 | ASTM D2983 |
| Flash Point (COC), °C                          | 237     | ASTM D92   |
| Pour Point, °C                                 | -42     | ASTM D97   |
| Density @15°C, kg/m <sup>3</sup>               | 839     | ASTM D4052 |

## Specifications

- API GL-4

### Transmission oil for mechanical gearbox G-Box GL-4 75W-90 exceeds requirements of main specifications according to the tests:



#### Protection of the parts from destruction

Protection of working surfaces of the gears from destruction – pitting area on the gear teeth is 6.3 times lower the limit (FZG pitting test C/9/90)

Protection from deposits formation – oxidation stability is 8.8 times higher than requirements (CEC-L-48-A-00 Apparatus B test)

#### Protection from the leakage

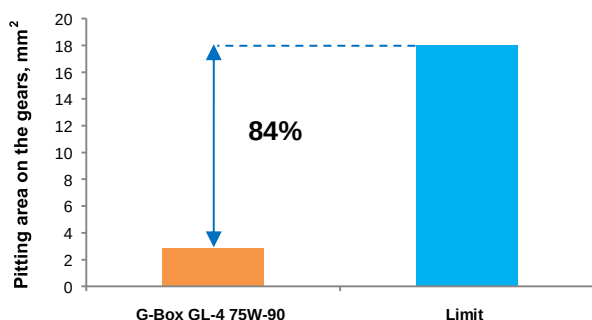
Reduction of leakage likelihood through the seals – impact on the sealing materials is 5 times lower the limit (VDA 675 301 (70 ACM 121433 test))

#### Reliable operation of synchronizers

Smooth and fast shifting of gears – friction coefficient in synchronizer after 100000 gear shifts is 13 % higher than requirements (ZF Synchromesh test)

Wear protection of synchronizers- wear of synchronizer is 8 times lower the limit (ZF Synchromesh test)

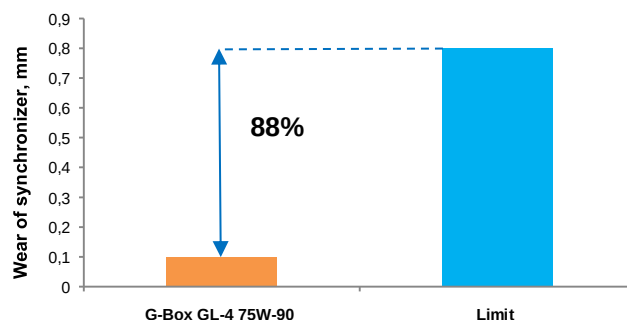
Protection of the parts under high loads\*



G-Box GL-4 75W-90 ensures stable protection of working surfaces of the parts from mechanical destruction and wear, providing maximum mileage of the units between repairs

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

Durability of synchronizers\*\*



G-Box GL-4 75W-90 protects synchronizers made of non-ferrous metal from wear, maintaining driving comfort even with frequent gear shifting

### The company's management system is certified in accordance with the international standards

ISO 9001



ISO 14001



ISO 45001

