

G-Box Expert GL-5 75W-90, 80W-90



Semi-synthetic oil
(SAE 75W-90)



High quality mineral
oil (SAE 80W-90)



Drive axles



Excellent extreme
pressure properties



Low-temperature
properties



High oxidation
stability

G-Box Expert GL-5 75W-90, 80W-90 – transmission oils, intended for use in drive axle gearboxes, transfer boxes, power take-off boxes and other units, where API GL-5 oil class of application is required. Oils provide uninterrupted operation of transmission units under high and shock loads in severe climatic conditions. Due to inclusion of synthetic base oil, G-Box GL-5 75W-90 has improved oxidation resistance and low-temperature properties.

Applications



- Gearboxes of the drive axles with hypoid gears of passenger cars and trucks
- Heavy-loaded transmission units, where API GL-5 level of oil properties is required
- Unsynchronized manual transmissions or manual transmissions with steel synchronizers
- It is not recommended to use in transmission units with synchronizers made from not-ferrous metal alloys

Advantages

G-BOX Expert GL-5 adaptive technology with the usage of functional additives complex allows to provide high efficiency and productivity of transmissions of various machineries:

Features	Potential Benefits
Excellent extreme-pressure properties	Protection of gears and bearings from pitting and scuffing – maximum service life of transmission units in severe operating conditions
Excellent anti-wear properties	Stable operation of transmission units in wide range of speeds and loads- saving on service maintenance
High oxidation stability	Minimization of acids and deposits formation on the parts – maximum mileage between repairs
Excellent low temperature properties	Improved oil fluidity – ensures smooth start in condition of severe climate
Compatibility with sealing materials	Inertness to seal and gasket materials- reducing the likelihood of oil leakage and saving on lubricants

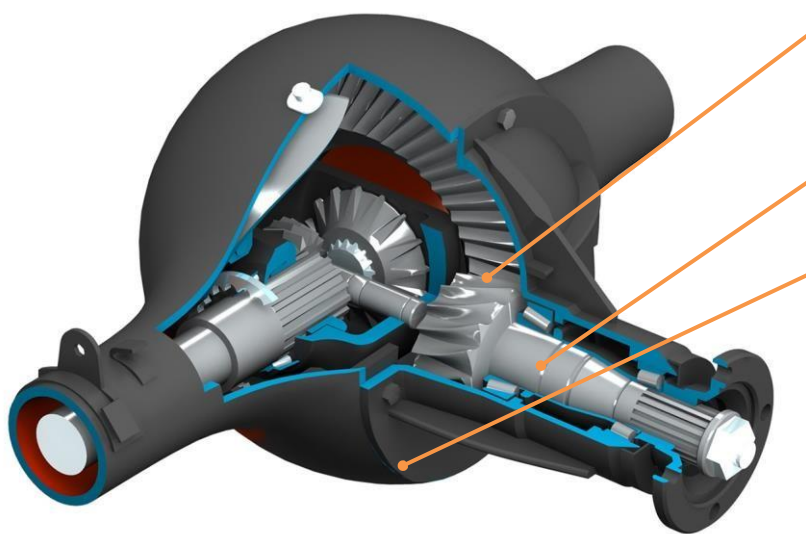
Typical Characteristics

Parameters	Value		Method
	75W-90	80W-90	
Kinematic Viscosity @100°C, mm ² /s	15,1	14,4	ASTM D445
Viscosity Index	150	96	ASTM D2270
Brookfield Viscosity, mPa·s	118 000 (-40 °C)	80 000 (-26 °C)	ASTM D2983
Flash Point (COC), °C	237	226	ASTM D92
Pour Point, °C	-43	-33	ASTM D97
Density @15°C, kg/m ³	851	889	ASTM D4052

Specifications

- API GL-5
 - MIL-L-2105D
 - PJSC "AVTOVAZ"
 - MAN 342 Type M2*
 - ZF TE-ML 05A/07A/08/12E/16B/17B/19B/21A*
- *- G-Box Expert GL-5 80W-90 only

Transmission oil G-Box Expert GL-5 75W-90 exceeds requirements of main specification according to the tests:



Gear teeth protection

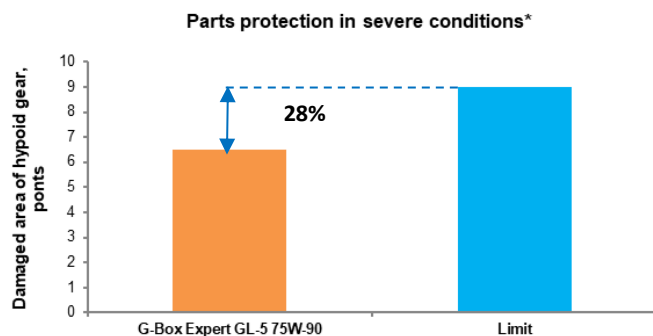
Wear protection of parts working surfaces
-damaged surface area of hypoid gear teeth at low speed is 28% lower (ASTM L-37)
Protection of the parts working surfaces under high loads- damaged surface area of hypoid gear teeth under shock loads 3.8 times lower (ASTM L-42)

Leakage protection

Reducing of likelihood of oil leakage through the seals -Effect on seals materials 5 times lower (VDA 675 301 70 ACM 121433)

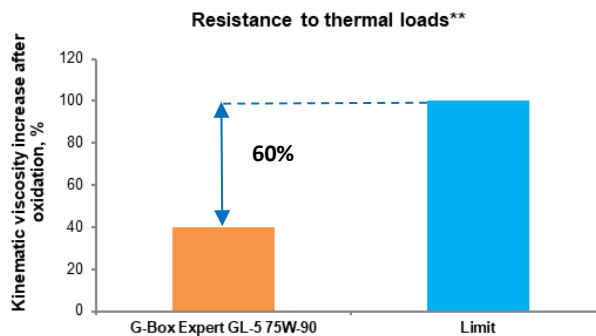
Protection against deposits

Protection against deposits formation-
Oxidation stability 2.4 times higher (Oxidation ASTM L-60)



G-Box Expert GL-5 75W-90 effectively protects hypoid gear teeth in wide range of loads and speeds, reducing the likelihood of equipment downtime.

*ASTM L-37 test; ** ASTM L-60 test



G-Box Expert GL-5 75W-90 does not form deposits on the transmission unit parts, providing effective heat removal.

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

ISO 9001



ISO 14001



ISO 45001

