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

<table>
<thead>
<tr>
<th>Features</th>
<th>Advantages and Potential Benefits</th>
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<tbody>
<tr>
<td>Outstanding extreme-pressure properties</td>
<td>Increased load-carrying capability for protection against low speed/high torque wear, high speed scoring and spalling</td>
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<tr>
<td>Enhanced frictional properties</td>
<td>Improved smooth shifting performance and potential fuel economy</td>
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<tr>
<td>Excellent shear stability</td>
<td>Viscosity retention even under high stress working conditions contribute to long transmission life</td>
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<tr>
<td>Excellent thermal and oxidation stability</td>
<td>Reduced deposits and sludge build-up help provide outstanding transmission performance even under severe driving conditions</td>
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<tr>
<td>Excellent low temperature performance</td>
<td>Outstanding oil pumpability for quicker lubrication and less gear resistance even in arctic conditions</td>
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<tr>
<td>Rust and corrosion protection</td>
<td>Protection of copper and its alloys for improved gear performance and long component life</td>
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<tr>
<td>Compatible with all common seal materials</td>
<td>Excellent leakages control</td>
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Meets the requirements:
- API GL-4
- API GL-5
- API MT-1
- ArvinMeritor 076-N
- Eaton Europe Extended Drain
- MACK GO-J
- MAN 341 Type E3
- MIL-L-2104D
- MIL-PRF-2105E
- Scania STO 1.0

Approvals:
- 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

ISO 9001 | ISO 14001 | ISO/TSE 16949 | OHSAS 18001 | CERTIFIED
---|---|---|---|---
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Typical Characteristics

<table>
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<tr>
<th>Properties</th>
<th>Method</th>
<th>G-Box GL-4/GL-5 75W-90</th>
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</thead>
<tbody>
<tr>
<td>SAE Viscosity Grade</td>
<td>SAE J306</td>
<td>75W-90</td>
</tr>
<tr>
<td>Kinematic Viscosity @40°C, mm²/s</td>
<td>ASTM D445</td>
<td>103.0</td>
</tr>
<tr>
<td>Kinematic Viscosity @100°C, mm²/s</td>
<td>ASTM D445</td>
<td>15.0</td>
</tr>
<tr>
<td>Brookfield @ -40°C, mPa·s</td>
<td>ASTM D2983</td>
<td>70000</td>
</tr>
<tr>
<td>Viscosity Index</td>
<td>ASTM D2270</td>
<td>155</td>
</tr>
<tr>
<td>Flash Point (COC), °C</td>
<td>ASTM D92</td>
<td>184</td>
</tr>
<tr>
<td>Pour Point, °C</td>
<td>ASTM D97</td>
<td>-45</td>
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<tr>
<td>Density @15°C, kg/m³</td>
<td>ASTM D4052</td>
<td>868</td>
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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 synchromesh unit performance
- Smooth shifting performance – coefficient of friction after 100k gear changes 1.8 times higher (ZF Synchromesh test);
- Synchromesh unit wear 6.7 lower (ZF Synchromesh 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)

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.