



# Delo Gear CGA SAE 80W-90

## High performance extended drain gear oil

### Product description

Delo® Gear CGA SAE 80W-90 is a high performance extended drain gear oil, designed for use in heavy-duty automotive vehicle driven axles and differentials.

Delo Gear CGA SAE 80W-90 is formulated with mineral base oils in combination with a high performance additive combination.

### Customer benefits

- Designed for extended drain of up to three times longer than standard mineral oils in heavy-duty final drives and differentials.
- Formulated for oxidation stability, oil thickening resistance, and helps keep gear cases, bearings and seals free from harmful deposits.
- Offers good low-temperature fluidity allowing fast circulation and wear protection during cold start-up.
- Extreme pressure (EP) additives promote reliable protection against component scuffing and wear.
- Mild-EP non-corrosive additive helps protect sensitive copper alloy components.

### Product highlights

- **Designed for three-times extended drain**
- **Helps keep gears, bearings deposit-free**
- **Offers low-temperature performance**
- **Promotes scuffing and wear resistance**
- **Formulated for copper alloy protection**

#### Selected performance standards include:

API	Bosch
Daimler Truck	MAN
SAE	Scania
Volvo	ZF

## Applications

- Delo Gear CGA SAE 80W-90 is designed for extended drain in heavy duty final drives (driven axles and differentials) in commercial vehicles and offers service considerably beyond what is normally possible with mineral-based formulations – as much as 3 times longer than standard mineral oils. (The precise service interval varies according to application and service severity – refer to the manufacturers' literature for further details).
- Delo Gear CGA SAE 80W-90 promotes robust performance in high load and high operating temperature conditions. The clean-gear additive system used in the formulation helps prevent sludge and deposit formation.
- Delo Gear CGA SAE 80W-90 has numerous OEM approvals, including MB 235.20 and MAN 342 Type M3 – two particularly demanding norms that few products can meet.
- The friction characteristics of Delo Gear CGA SAE 80W-90 make it generally unsuitable for use in synchronised manual transmissions and transaxles, except in applications where this type of fluid is specifically recommended (for example, MAN 341 Type GA1 and Scania STO 1:0).

## Approvals, performance and suitable for use

### Approvals

- MAN 341 Type GA1 <sup>[6]</sup>
- MAN 342 Type M3 <sup>[6]</sup>
- Daimler Truck DTFR 12B110 (previously MB 235.20)
  
- SAE J2360 <sup>[7]</sup>
- Scania STO 1:0 <sup>[1]</sup>
- Volvo 97321 <sup>[4]</sup>
- ZF TE-ML 05A <sup>[5]</sup>
- ZF TE-ML 12L <sup>[5]</sup>
- ZF TE-ML 12M <sup>[5]</sup>
- ZF TE-ML 16B <sup>[5]</sup>
- ZF TE-ML 17B <sup>[5]</sup>
- ZF TE-ML 19B <sup>[5]</sup>
- ZF TE-ML 21A <sup>[5]</sup>

### Performance

- API GL-5
- API MT-1
- Bosch TE-ML 08 <sup>[2, 3]</sup>
- ZF TE-ML 07A <sup>[2]</sup>

<sup>[1]</sup> Approved for use in gearboxes; also permitted in some lightly-loaded long-haul axle applications (trucks - operation types 0 and 1; busses - operation type 1). Other axle applications require higher viscosity fluids.

<sup>[2]</sup> Products meeting the necessary requirements for this specification are approved without listing.

<sup>[3]</sup> List formerly administered by ZF.

<sup>[4]</sup> Volvo approval number: 97321-018.

<sup>[5]</sup> ZF approval number: ZF003513.

<sup>[6]</sup> MAN approval number: TUC 0684/16.

<sup>[7]</sup> SAE approval number: PRI GL 0916

Typical test data		
Test	Test Methods	Results
<b>Shelf Life: 48 months from date of filling indicated on the product label.</b>		
Density, 15 °C, kg/l	ASTM D1298	0.889
Flash Point COC, °C	ASTM D92	216
Pour Point, °C	ASTM D97	-36
Viscosity, Kinematic, 100°C, mm <sup>2</sup> /s	ASTM D445	15.0
Viscosity, Kinematic, 40°C, mm <sup>2</sup> /s	ASTM D445	140
Viscosity, Brookfield, -26°C, mPa.s	ASTM D2983	82,000
Viscosity Index	ASTM D2270	108

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The typical test data set out above does not constitute a specification. It is indicative only and can be affected by allowable production tolerances. Chevron may modify this test data. Modified data will supersede all previous data, so please ensure you refer to the latest version of this Product Data Sheet (PDS).

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