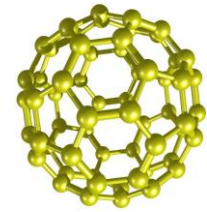




High Performance Gear Oils API GL-4



Fortified With
Bardahl Fullerenes
Technology

BARDAHL High Performance Heavy Duty Gear Oils (API GL-4)

- SAE 90
- SAE 140

PRODUCT DESCRIPTION

Bardahl High Performance Heavy Duty Gear Oil SAE 90 GL-4 and SAE 140 GL-4 are formulated with naturally high VI (viscosity index) paraffinic base stocks and sulphur-phosphorus additive package. These gear oils impart excellent oxidation stability characteristics and effective anti-weld, anti-wear and anti-scuff properties.

In addition, Bardahl Fullerenes Technology provides enhanced protection to the gear systems. It has excellent thermal stability and corrosion resistance.

Bardahl Fullerenes Technology

Normal gear oils, anti-wear and anti-friction additives form a single layer of protection that can be broken under high load and high stress applications. Bardahl Fullerenes Technology offers added layer of protection to shield gear components against friction and wear. It uses Bardahl Fullerene molecules to create an extra protective layer of hard particles on gear surfaces and prevent direct surface-to-surface contact. Being spherical in shape, Bardahl Fullerene molecules act as nano ball bearings, allowing surfaces to glide over one another with minimal friction and wear.

Advantages

- High performance multipurpose gear lubricant.
- Protects gears and bearings from wear at extreme pressures, and outstanding anti-wear protection.
- Formulated to be compatible with “yellow metals” such as bronze found in synchronizers and other transmission components.
- High temperature stability.
- Inhibits foaming and aeration.

Performance Standards

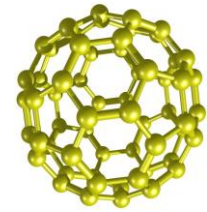
API GL-4

Applications

- Suitable for the majority of automotive hypoid and spiral-bevel gear applications under high-speed / low torque or low speed / high torque in moderately severe load conditions.
- Designed for non-transmission gear boxes and steering boxes.
- Designed for applications requiring an API GL-4 specification.



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Typical Properties

SAE GRADE	GL-4 SAE 90	GL-4 SAE 140
Appearance	Clear	Dark
Density, kg/litre@15°C	0.862	0.910
Kinematic Viscosity, mm ² /s@40°C	186.0	456.0
Kinematic Viscosity, mm ² /s@100°C	16.8	30.1
Viscosity Index	96	95
Pour Point, °C	-18	-12
Flash Point COC, °C	226	250