



LUBRICANTS

## Automotive Gear Oil GL-4

Phillips 66® Automotive Gear Oil GL-4 is a multipurpose, extreme-pressure, API GL-4 automotive gear lubricant specifically designed for use in select manual transmissions and in drive axles with spiral bevel gears or with hypoid gears operating under moderate speeds and loads.

Automotive Gear Oil GL-4 is formulated to provide long service life and excellent gear protection in automotive differentials operating under varying conditions of speed, load, temperature and torque. The 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 moderate load conditions. It also is suitable for heavy-duty commercial manual transmissions and transaxles where the OEM specifies an API GL-4 quality oil.

### Applications

- Service fill of conventional differentials in passenger cars and trucks with spiral bevel gears, or with hypoid gears operating under moderate loads where API GL-5 gear oils are not required
  - Service fill of differentials, final drives and transfer cases in some off-highway equipment
  - Manual transmissions in trucks, buses and heavy equipment where the manufacturer specifies an API GL-4 gear oil
- Automotive Gear Oil GL-4 meets or exceeds the requirements of:
- API Service GL-4

### Features/Benefits

- Excellent oxidation resistance and thermal stability to minimize sludge and varnish formation
- Good thermal durability and extreme-pressure (EP) properties for long gear life
- High load-carrying capacity for protection against scuffing and wear
- Protects against rust and corrosion
- Good foam resistance

**Multipurpose  
Automotive  
Gear Lubricant,  
API GL-4**

KEEPING THE  
WORLD  
RUNNING  
SMOOTHLY. 



### Automotive Gear Oil GL-4

Typical Properties		
SAE Grade	80W-90	85W-140
Specific Gravity @ 60°F	0.886	0.893
Density, lbs/gal @ 60°F	7.38	7.44
Color, ASTM D1500	3.0	8.0
Flash Point (COC), °C (°F)	248 (478)	248 (478)
Pour Point, °C (°F)	-32 (-26)	-25 (-13)
Viscosity, Brookfield		
cP @ -26°C	85,000	---
cP @ -12°C	---	58,000
Viscosity, Kinematic		
cSt @ 40°C	168	409
cSt @ 100°C	16.0	29.0
Viscosity Index	98	98

### Health & Safety Information

For recommendations on safe handling and use of this product, please refer to the Safety Data Sheet via <http://www.phillips66.com/EN/products/Pages/MSDS.aspx>.