

PENNZOIL PLATINUM™ AXLE SAE 75W-140

Long Service Life, Wide Temperature Use Gear Oil

TECHNICAL DATA SHEET



PENNZOIL PLATINUM™ AXLE SAE 75W-140, combines a premium performance gear oil additive package with a high quality synthetic base stock. The result is a gear oil that provides excellent low temperature fluidity for safe lubrication during very low temperature axle and transmission startup, and also maintains a thick protective oil film during extremely hot operating conditions.

PENNZOIL PLATINUM™ AXLE SAE 75W-140 is formulated with all the performance additives necessary for outstanding protection of gears and bearings. It contains extreme pressure agents which protect against shock loading and wear. Foam inhibitors protect against oil aeration, which can rupture the lubricant film and cause wear due to lack of lubrication. Special rust inhibitors are incorporated into PENNZOIL PLATINUM™ AXLE SAE 75W-140 to protect against corrosion that can result from condensation. Oxidation inhibitors are included to further enhance this synthetic oil's inherent oxidation stability, resulting in a lubricant with exceptionally long service life and excellent resistance to deposit and sludge formation during high temperature operation.

PERFORMANCE, FEATURES & BENEFITS

- Maintains fluidity at low temperatures
- Does not thin out at high temperatures
- Long service life
- Prevents rust
- Resists oxidation
- Withstands heavy shock loads
- High viscosity index

MAIN APPLICATIONS



PENNZOIL PLATINUM™ AXLE SAE 75W-140 is designed primarily for the lubrication of differentials and manual transmissions requiring an API GL-5 gear lubricant. It can be used in passenger cars, light trucks, medium and heavy duty trucks, and commercial equipment where OEM requirements allow. It continues to flow at very low temperatures, providing especially good protection of gears and bearings in extreme cold weather.

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It also provides excellent service in hot climates by not thinning at high temperatures, thereby maintaining a full film of protective lubricant on gear teeth. In hot running gear boxes, it allows long service due to the excellent stability of the synthetic base stocks used in it.

Limited Slip Capability

PENNZOIL PLATINUM™ AXLE SAE 75W-140 is suitable for use in conventional axles and a number of older and moderately loaded limited slip differentials. Some limited slip differentials may require additional limited slip additive due to the mechanical set up of individual vehicles. When the vehicle manufacturer requires more than 2-3% (2 ounces in a 2 quart (64 ounces) differential) of limited slip additive (limited slip friction modifier), additional limited slip additive should be used. These may include some 2000 and later Ford pick-up trucks (requires 6-7%) in ¾ and 1 ton trucks with limited slip differentials or gearbox. Some Dodge trucks using MS-8985 SAE 75W-140 axle fluid require addition of limited slip additive for a total of 5%. In these cases, it is recommended to follow the vehicle manufacturer's recommendation for addition of limited slip additive added to prevent chattering in certain maneuvers. Follow OEM requirements and check specific requirements for the vehicles differential. Requirements may vary within a vehicle model and model year as different differentials are used in various engine and transmission combinations or with specific vehicle options.

In these cases, it is recommended to follow the vehicle manufacturer's recommendation for addition of limited slip additive added to prevent chattering in certain manouvres. Follow OEM requirements and check specific requirements for the vehicles differential or gearbox. Requirements may vary within a vehicle model and model year as different differentials are used in various engine and transmission combinations or with specific vehicle options.

SPECIFICATIONS, APPROVALS & RECOMMENDATIONS

PENNZOIL PLATINUM™ AXLE SAE 75W-140 meets all the requirements of API Service Classification GL-5.MT-1 and SAE J2360.

For a full listing of equipment approvals and recommendations, please consult your local Shell Technical Helpdesk.

To find the right Pennzoil® product for your vehicles and equipment, please consult www.pennzoil.com to look up the right motor oil recommendation using our oil selector.

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TYPICAL PHYSICAL CHARACTERISTICS

Properties		Method	PENNZOIL PLATINUM™ AXLE SAE 75W-140	
Gravity, Specific	@60°F	ASTM D1298	0.865	
Pounds per Gallon			7.3	
Flash Point		°C(°F)	ASTM D92	188(370)
Pour Point		°C(°F)	ASTM D97	-45(-49)
Kinematic Viscosity	@40°C	cSt	ASTM D445	179
Kinematic Viscosity	@100°C	cSt	ASTM D445	25
Viscosity Index			ASTM D2270	173
Brookfield Viscosity	@-40°C	cP	ASTM D2983	108 400

These characteristics are typical of current production. While future production will conform to Pennzoil's® specification, variations in these characteristics may occur.

HEALTH, SAFETY & ENVIRONMENT

Health and Safety

Pennzoil Platinum™ Axle 75W-140 is unlikely to present any significant health or safety hazard when properly used in the recommended application and good standards of personal hygiene are maintained.

Avoid contact with skin. Use impervious gloves with used oil. After skin contact, wash immediately with soap and water.

Guidance on Health and Safety is available on the appropriate Safety Data Sheet, which can be obtained from <https://www.epc.shell.com/>

Protect the Environment

Take used oil to an authorised collection point. Do not discharge into drains, soil or water.

ADDITIONAL INFORMATION

Advice

Advice on applications not covered here may be obtained from your Shell Lubricants distributor representative or Shell Technical Helpdesk.