

Shell Spirax S3 ALS 85W-90

High performance, GL-5 axle oil for limited slip differentials

Shell Spirax S3 ALS 85W-90 oil is blended for use in a wide variety of automotive axle units with limited slip differentials including many ZF units.

DESIGNED TO MEET CHALLENGES

Performance, Features & Benefits

· Comprehensive components

Specially selected additives impart good anti-wear, anti-rust characteristics, oxidation and thermal stability as well as the required coefficient of friction to meet requirements of limited slip differentials.

· OEM approved performance

Approved by ZF for use in differential and axle units.

· Increased protection

Improved protection with MIL-L-2105D performance capability compared to Shell Spirax S2 ALS 80W-90.

· High quality base oils

Maintains low temperature flow in the designed temperature range, resists oxidation and maintains oil film between gears.

Main Applications







Automotive drivelines

Suitable for heavy duty vehicles, including construction machines or buses, and passenger cars which are fitted with limited slip differentials. May be used in other moderate to heavily loaded gear sets that will allow use of a friction modified, hypoid gear oil.

 Specifically suitable for ZF units including Liebherr where a limited slip fluid is required.

Specifications, Approvals & Recommendations

• ZF TE-ML: 05C, 12C, 21C, 16E

API Service Classification : GL-5 Limited Slip

MIL-L-2105D : Meets

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

Typical Physical Characteristics

Properties		Method	Shell Spirax S3 ALS 85W-90
SAE Viscosity Grade			85W-90
Kinematic Viscosity	@100°C mm²/s	ASTM D445	16.5
Viscosity Index		ISO 2909	101
Pour Point	⁰C maximum	ASTM D97	-36

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

Health, Safety & Environment

· Health and Safety

Shell Spirax S3 ALS 85W-90 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 Representative.