Technical Data Sheet

Formerly Known As: **Shell Spirax ASX 75W-90**

# Shell **Spirax** *S6 AXME 75W-90*

- Enhanced Efficiency
- Exceptional Performance
- Maintenance Saving

***Superior performance, synthetic, fuel efficient GL-5 axle oil for many premium applications***

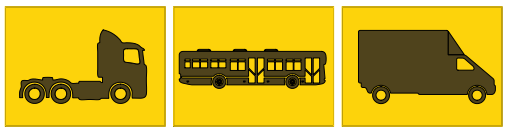
Shell Spirax S6 AXME 75W-90 is a unique fuel-efficient, long life transmission and axle oil, designed to provide ultimate protection to the latest heavy duty manual transmissions and axles. Specially formulated with synthetic base oils and additive technology unique for Shell, gives improved lubrication of the drive train, lowers the operating temperature and helps promote longer life for the equipment. Shell Spirax S6 AXME 75W-90 is also extended oil drain capable and is approved by several OEMs for their extended drain specifications.

## DESIGNED TO MEET CHALLENGES

### Performance, Features & Benefits

- **Greater efficiency and therefore higher fuel economy**
  Tailored frictional properties give lower power loss and hence lower operating temperatures resulting in increased mechanical efficiency.
- **Longer oil drain capability**
  Super high performance additives with exceptional oxidation resistance plus lower operating temperatures ensures long term gear and seal protection and longer oil life.
- **Longer equipment life**
  Excellent protection against gear wear and pitting, helps prevent premature failures. Outstanding oxidation resistance also helps prevent damage to seals due to deposit formation.
- **Less lubricant usage**
  Excellent static and dynamic seal compatibility exceeding OEM requirements, which helps minimize seal leaks. The extended drain capabilities help maximize oil drain intervals resulting in less overall lubricant usage during life of the equipment.
- **Recognised by leading equipment manufacturers**
  A number of leading equipment manufacturers recognise the benefits of Shell Spirax S6 AXME 75W-90 and have formally approved it against their specifications.

### Main Applications



- **Transmissions and axles**
  Heavily loaded axles and non-synchronised transmissions where mineral or synthetic GL-5/MT-1 gear oils are recommended.

### Specifications, Approvals & Recommendations

- API GL-5, MT-1
- SAE J2360
- DAF
- Mack GO-J
- MAN 342 Typ S1
- Meritor approved for O-76N, O-94 (stand. drain), O-95 (ext. drain) and O-96 (e-Powertrain)
- Scania STO 2:0 A FS
- Volvo 97312
- ZF TE-ML 05A, 12L, 12N, 16F, 17B, 19C, 21A
- Meets Iveco 18-1805 Extended Drain requirements

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

## Typical Physical Characteristics

| Properties | | | Method | Shell Spirax S6 AXME 75W-90 |
|---|---|---|---|---|
| SAE Viscosity Grade | | | SAE J 306 | 75W-90 |
| Kinematic Viscosity | @40°C | $mm^2/s$ | ISO 3104 | 115 |
| Kinematic Viscosity | @100°C | $mm^2/s$ | ISO 3104 | 15.2 |
| Dynamic Viscosity | @-40°C | mPa s | ISO 9262 | 135 000 |
| Shear Stability (Viscosity after shearing) | @100°C | $mm^2/s$ | CEC L-45_A-99<br>ISO 3104 | 14.5 |
| Viscosity Index | | | ISO 2909 | 138 |
| Density | @15°C | $kg/m^3$ | ISO 12185 | 878 |
| Flash Point (COC) | | °C | ISO 2592 | 210 |
| Pour Point | | °C | ISO 3016 | -42 |

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 S6 AXME 75W-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 your Shell representative.

- **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 www.epc.shell.com