



# Shell Spirax® ASX SAE 80W-140

## High performance, synthetic transmission and axle fluid

Shell Spirax ASX SAE 80W-140 is a fully synthetic, multipurpose, heavy-duty gear lubricant specifically designed for heavy duty, differentials that call for an API GL-5 type product.

### Applications

- heavy duty differentials
- all applications normally lubricated by automotive gear oil such as rear wheel bearings, manual steering gears and universal joints calling for an SAE 80W-140 grade
- transfer cases for automobiles, light and heavy-duty trucks, farm equipment and heavy construction equipment calling for SAE 80W-140 or 85W-140 grades
- industrial gear applications where extreme pressure oils with excellent low and high temperature properties are required
- differentials used in conjunction with Eaton and Meritor extended warranties calling for an SAE 80W-140 grade
- manual transmissions where the manufacturer specifies a GL-5 oil of SAE 80W-140 or 85W-140 grades.

NOTE: For optimum performance, mineral oil lubricants should be drained before using Shell Spirax ASX SAE 80W-140. Mixing with other products may reduce its effectiveness and field performance

### Performance Features and Benefits

- outstanding thermal stability especially in applications where heat, wear and extended drain intervals contribute to severe service

- high film strength and excellent shear stability
- excellent low temperature properties promotes oil flow to help protect gears and bearings even at sub-zero temperatures
- synthetic formula provides maximum protection over a wide range of temperatures
- separates readily from water
- compatible with other MIL-L-2105D or MIL-PRF-2105E quality gear lubricants

### Specification and Approvals

- API Classifications GL-5 and MT-1
- Dana Specification SHAES 429 Rev. A
- Mack GO-J
- ArvinMeritor Specification O76-B (standard drain), O76-M (extended drain)
- General Electric D50E9C
- Harnischfeger (P&H) 474
- MIL-PRF-2105E
- International Truck and Engine TMS 6816
- Two industry standards for demulsibility -- U.S. Steel Specification 224, and the American Gear Manufacturers (AGMA) Standard 250.03

**Advice**

Advice on applications not covered in this leaflet may be obtained from your Shell representative.

Guidance on Health and Safety are available on the appropriate Material Safety Data Sheet that can be obtained from your Shell representative.

**Health and Safety**

**Protect the environment**

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

**Typical Physical Characteristics**

| Typical Properties of Shell Spirax ASX |              |               |
|--|--------------|---------------|
|  | Test Methods | SAE Grade     |
|  |              | 80W-140       |
| Product Code                           |              | 59227         |
| Gravity, °API                          | D 287        | 23.6          |
| Viscosity:                             |              |               |
| @ 40°C, cSt                            | D 445        | 271           |
| @ 100°C, cSt                           | D 445        | 30.5          |
| @ -18°C, cP                            | D 2983       | 20500         |
| @ -26°C, cP                            | D 2983       | 75000         |
| @ -40°C, cP                            | D 2983       | ---           |
| Viscosity Index                        | D 2270       | 146           |
|  |              |               |
|  |              |               |
| Flash Point, °C (°F)                   | D 92         | 201 (395)     |
| Pour Point, °C (°F)                    | D 97         | < -40 (< -40) |
| Timken, OK Load                        | D 2509       | 85            |
| FZG Gear Test                          |              | 12            |

These characteristics are typical of current production. While future production will conform to Shell specification, variations in these characteristics may occur. The information contained herein is subject to change without notice.

**Handling & Safety Information**

For information on the safe handling and use of this product, refer to its Material Safety Data Sheet at <http://www.shell.com/us/lubricants>. For technical assistance, please call **1-800-231-6950**. For orders and other inquiries, please call **1+800-468-6457 (Distributors)** or **1-800-840-5737 (Customers)**.