

# SHELL SPIRAX<sup>®</sup> HD

## Heavy-duty gear oil for automotive differentials and manual transmissions

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### Product Description

Shell Spirax<sup>®</sup> HD oils are high performance multigrade extreme-pressure, multipurpose gear lubricants. They are suitable for heavy-duty truck and automotive differentials, manual transmissions and oil lubricated wheel bearings. drive-train gears of heavy-duty automotive, trucking and off-road equipment operated under high-speed/shock load, high-speed/low torque and low-speed/high torque conditions. They meet the requirements of API GL-5 and MIL-PRF-2105E and are available in two SAE viscosity grades: 80W-90 and 85W-140.

### Applications

- heavy-duty and conventional differentials in heavy and light duty trucks as well as passenger cars
- conventional manual transmissions calling for API GL-5
- heavy-duty manual transmissions requiring API MT-1 (SAE 80W-90)
- hypoid, spur, bevel, helical, spiral-bevel and worm gears in differentials, transmissions, final drives and steering mechanisms
- industrial gears sets where extreme pressure gear oils are required

Note: cars equipped with limited-slip differentials may require a different lubricant specified by the manufacturer, such as **Shell Spirax<sup>®</sup> LS**.

### Features/Benefits

- protects hypoid gears against wear and scuffing
- multi-viscosity for year round use over wide temperature range
- contains a sulfur/phosphorus additive system for excellent load carrying capacity
- contains additives to inhibit oil oxidation and keep lubricated parts clean
- contains inhibitors to protect against corrosion, rust and foaming
- compatible with other automotive gear oils

### Approvals and Recommendations

- API Service GL-5 and MT-1
- Mack GO-J, GO-H, GO-G
- MIL-PRF-2105E, SAE J2360
- Meritor Automotive, Inc (formerly Rockwell) O-76-A (SAE 85W-140) and O-76-D (SAE 80W-90)
- International Truck and Engine CEMS B-22

### Typical Properties of Shell Spirax<sup>®</sup> HD

	Test Method	SAE Grade	
		80W-90	85W-140
Product Code		59210	59212
Gravity, °API	D 1298	26.6	24.6
Viscosity:			
@ - 26°C, cP	D 2983	112000 <sup>1</sup>	---
@ - 12°C, cP	D 2983	---	67000 <sup>1</sup>
@ 40°C, cSt	D 445	145	323
@ 100°C, cSt	D 445	14.7	24.6
Viscosity Index	D 270	100	98
Flash Point, COC, °C (°F)	D 92	224 (435)	222 (432)
Pour Point, °C (°F)	D 97	-30 (-22)	-15 (+5)

1 -- MIL-PRF-2105E and SAE J306 specify that viscosities measured at these temperatures do not exceed 150,000 cP.

### 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-lubricants.com/msds/>. If you are a Shell Distributor, please call **1+800-468-6457** for all of your service needs. All other customers, please call **1+800-840-5737** for all of your service needs. Information is also available on the World Wide Web: <http://www.shell-lubricants.com/>.