



Lubricants Report



Product Data Sheet from Shell Lubricants

PDS# 1.08.200

PRODUCT LINE

Spirax HD oils are extreme-pressure (EP) automotive hypoid gear oils designed to exceed the latest performance standards for heavy duty, severe service.



SPIRAX[®] HD Heavy Duty AUTOMOTIVE GEAR OILS

APPLICATIONS

Spirax HD oils are designed for service in the drive-train gears of heavily loaded equipment and passenger vehicles. They are recommended for the lubrication of hypoid, spur, bevel, helical, spiral-bevel and worm gears in differentials, transmissions, final drives, transfer cases, and steering mechanisms.

Spirax HD 75W-90 and 80W-90 are our premium all-season, multigrade gear oils designed to exceed Original Equipment Manufacturers lubrication requirements under today's increased temperature and loads. **Spirax HD 85W-140** is recommended for high temperature heavy duty equipment and is typically used in off-highway applications. **Spirax S 75W-90** (a fully synthetic lubricant) is available for equipment under extended warranty programs ([see PDS 1.28](#)).

PERFORMANCE BENEFITS

- **Superior Load Carrying Ability** - The EP additives contained in all **Spirax HD** oils provide excellent, long lasting protection against scuffing and minimize wear, even in the toughest operating conditions.
- **Superior Thermal and Oxidation Stability** - **Spirax HD** provides superior resistance to high temperature decomposition (breakdown). Even when operating conditions approach 150 °C, **Spirax HD** outperforms conventional API GL-5 lubricants. This improved thermal and oxidation stability helps ensure that deposits do not form around seals and helps maintain clean bearing surfaces to minimize wear.
- **All-Season Service** – Depending on the ambient temperatures involved, **Spirax HD 75W-90 and 80W-90** provide potential one grade, all-season operation. They can eliminate the need for seasonal changes and reduce the number of gear oils required.
- **Potential for Fuel Economy** - **Spirax HD** multigrade and low temperature range features lessen frictional energy loss which improves fuel economy.

PERFORMANCE SUMMARY

Performance Classification	SPIRAX HD		
	75W-90	85W-140	80W-90
API GL-4, GL-5	X	X	X
API MT-1		X	X
MIL-L-2105D		X	X
MIL-PRF-2105E		X	X
Mack GO-H approved		X	X
Mack GO-J approved		X	X

TYPICAL PROPERTIES

SAE GRADE	SPIRAX HD			ASTM METHOD
	75W-90	85W-140	80W-90	
Product Code	437-010	437-007	436-006	
Density at 15°C, kg/m ³	887.0	901.0	887.2	D 1298
Colour, ASTM	1.0	4.0	2.5	D 1500
Pour Point, °C	-42	-12	-27	D 97
Flash Point, COC, °C	195	200	218	D 92
Viscosity:				D 445
- Kinematic				D 445
cSt at 40°C	108	411	139	
cSt at 100°C	19.1	29.7	14.8	
- Brookfield				
cP at -12°C	-		-	D 2983
cP at -26°C	-	79,000	136,000	D 2983
cP at -40 °C	123,000	-	-	D 2983
Channel Point, °C	<-45	<-20	<-35	
Viscosity Index	195	103	110	D 2270

Visit your nearest Shell Associate or 90 Reseller for more details.

Need more product information? Please the [Shell Helps Centre Technical Desk](mailto:questions@shell.ca) at 1-800-661-1600 or e-mail us at questions@shell.ca

MSDS requests? Please call 1(403)691-2615 or fax your request to 1(403)691-3321.

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