Technical Data Sheet

Shell **Helix** *HX8 Synthetic Diesel 5W-30*

Fully synthetic motor oil - Relentless performance, cleansing and protection

Shell Helix HX8 Synthetic Diesel works hard to keep modern diesel engines clean and protected. It helps to prevent the formation of harmful deposits that can lead to performance loss and helps to reduce engine friction to provide enhanced fuel economy.

Proud Drivers Choose Shell Helix

Performance, Features & Benefits

- **Shell's Superior active cleansing technology** [1]

  Actively locks away harmful performance-robbing deposits.

- **Active clean-up**

  Helps to remove sludge left behind by inferior oils [5]

- **Premium sludge protection**

  Provides sludge protection that no other synthetic technology and mineral oil can surpass [2]

- **Excellent wear protection** [6]

  Helps to extend engine life by protecting against wear, even in the toughest driving conditions.

- **Helps to maintain protection throughout the oil-drain interval**

  Superior resistance to oil degradation [7]

- **Low viscosity and low friction**

  Enhanced fuel economy with up to 1% improvement over Shell Helix HX7 [3.]

- **Enhanced low-temperature performance**

  Faster oil flow for quicker engine warm-up [8]

- **Low-evaporation formulation** [4]

- **Low oil consumption for less frequent top-up**

1 Compared with Shell Helix mineral and synthetic technology oils.

2 Based on Sequence VG sludge test using 5W-30.

3 Based on ACEA M 111 fuel economy results compared with the industry reference oil versus HX7 10W-40.

4 Based on NOACK volatility test and equipment manufacturers' requirements

5 Based on a severe sludge clean-up test.

6 Based on Sequence IVA engine test carried out at an independent laboratory.

7 Compared with API SN specification and based on Sequence IIIG oxidation and deposit tests carried out at an indpendent laboratory.

8 Compared with higher-viscosity oils.

Main Applications

- Shell Helix HX8 Synthetic Diesel's formulation can be used in diesel engines in a wide variety of modern vehicles that face these demanding driving conditions, such as carrying heavy loads, operating in extreme climates or driving in congested stop-start city traffic. Shell Helix HX8 Synthetic can be used for light duty diesel engines (without particulate filters) and it is also suitable for use with biodiesel.

Specifications, Approvals & Recommendations

- ACEA A3/B4
- Meets requirements MB 229.5, MB 229.3
- VW 505.00
- RN 0710

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

Typical Physical Characteristics

Properties			Method	Shell Helix HX8 Synthetic Diesel 5W-30
Density	@15°C	Kg/m^3	ASTM D4052	841.3
Kinematic Viscosity	@40°C	cSt	ASTM D445	71.69
Kinematic Viscosity	@100°C	cSt	ASTM D445	11.93
Flash Point		°C	ASTM D92	244
Pour Point		°C	ASTM D97	-48

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 Helix HX8 Synthetic Diesel 5W-30 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 (SDS) which can be obtained from 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 or Shell Lubricants distributor representatives or technical helpdesks.

  To find the right Shell Helix product for your vehicles and equipment, please consult Shell LubeMatch at http://lubematch.shell.com