Shell **Helix** *HX7 10W-40*

Synthetic technology motor oil - Helps to keep engines clean and running efficiently

Shell Helix HX7 helps to keep engines clean and running efficiently by helping to prevent the formation of sludge and engine deposits. It is suitable for a wide variety of modern vehicles driven in demanding traffic conditions.

Proud Drivers Choose Shell Helix

Performance, Features & Benefits

- **Synthetic Technology**
  Uses both synthetic and mineral base stocks to achieve higher performance levels than can be formulated from mineral oils alone.
- **Shell's unique active cleansing technology**
  Actively locks away harmful performance-robbing deposits.
- **Active clean-up**
  Helps to remove sludge left behind by inferior oils [1].
- **Excellent wear protection [2]**
  Helps to extend engine life by protecting against wear, even in daily traffic conditions.
- **Excellent resistance to degradation**
  Helps to maintain protection throughout the oil-drain interval.
- **Low-temperature performance**
  Faster oil flow for quicker engine warm-up [3].
- **Low-evaporation formulation [4]**
  Low oil consumption for less frequent top-up.
- **Multi-fuel capability**
  Can be used for gasoline, diesel and gas engines, and is also suitable for biodiesel and gasoline/ethanol blends.
- **Low Speed Pre-Ignition Protection (LSPI)**
  The latest highly rated turbocharged gasoline direct injection engines can be vulnerable to damaging LSPI events resulting from uncontrolled ignition of the fuel.

1 Based on a severe sludge clean-up test.

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

3 Compared with Shell Helix mineral oils.

4 Based on NOACK volatility test and equipment manufacturers' requirements.

Main Applications

- Shell Helix HX7 helps to prolong the engine life of modern vehicles in demanding daily traffic conditions by protecting against wear. Shell Helix HX7 can be used for gasoline engines, diesel engines (without particulate filters) and gas engines, and it is also suitable for use with biodiesel and gasoline/ethanol blends.
- It is also suitable for use in modern direct injection turbocharged gasoline engine where it provides protection against damaging low-speed pre-ignition (LSPI).

Specifications, Approvals & Recommendations

- API SP
- ACEA A3/B4
- VW 501.01/505.00
- Meets requirements of Renault RN 0700, RN 0710, Mercedes-Benz MB 229.3

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

  Advice on applications not covered here may be obtained from your Shell or Shell Lubricants distributor representatives or technical helpdesks.

Typical Physical Characteristics

Properties			Method	Shell Helix HX7 10W-40
Kinematic Viscosity	@40°C	cSt	ASTM D445	92.4
Kinematic Viscosity	@100°C	cSt	ASTM D445	13.9
Viscosity Index			ASTM D2270	153
Dynamic Viscosity	@-25°C	cP	ASTM D5293	6 043
MRV	@-30°C	cP	ASTM D4684	19 300
Density	@15°C	kg/m^3	ASTM D4052	863
Flash Point		°C	ASTM D92	242
Pour Point		°C	ASTM D97	-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 Helix HX7 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 https://www.epc.shell.com

- **Protect the Environment**

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