Technical Data Sheet

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

Cleans and protects for extra responsiveness

Shell Helix HX7 has been formulated with special active cleansing technology. It works harder to protect than conventional motor oils by continuously helping to prevent dirt and sludge build-up for better responsiveness right up to the next scheduled oil change.

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 lpg engines, and is also suitable for biodiesel and gasoline/ethanol blends.

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

- Suitable for fuel-injection gasoline engines fitted with 'blow-by' gas recirculation and catalytic converters. Also suitable for turbo-charged and intercooled, direct-injection diesel engines fitted with 'blow-by' gas recirculation without particulate filters.

Specifications, Approvals & Recommendations

- API: SN/CF
- ACEA: A3/B3, A3/B4
- JASO: SG+
- MB Approval: 229.3
- VW: 502.00/505.00
- Renault RN 0700, 0710
- Fiat: 9.55535-G2 (meets requirements)
- 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 help desks.

Typical physical Characteristics

Properties			Method	Shell Helix HX7 10W-40
Kinematic Viscosity	@100°C	cSt	ASTM D445	14.37
Kinematic Viscosity	@40°C	cSt	ASTM D445	96.31
Viscosity Index			ASTM D2270	154
MRV	@-30°C	cP	ASTM D4684	21100
Density	@15°C	kg/m^3	ASTM D4052	860
Flash Point		°C	ASTM D92	246
Pour Point		°C	ASTM D97	-45

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 Material Safety Data Sheet, which can be obtained from http://www.epc.shell.com/

- **Protect the Environment**

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