



# Shell Helix *Ultra Professional AM-L 5W-30*

*Fully Synthetic Motor Oil - Tailored to meet engine manufacturer special requirements*

Designed to meet the demanding requirements of particular high-performance engines, including BMW and Mercedes-Benz, and those requiring API SN or ACEA C3.

## Proud Drivers Choose Shell Helix

### Performance, Features & Benefits

#### • Fuel efficiency

Passes ACEA fuel economy M111FE (CEC-L-54-T-96) with a minimum of 2.5% fuel efficiency improvement (average of three results).

Passes MB NEDC fuel economy W204 test.

#### • Mercedes-Benz specific in-house tests

Passes M271 test for engine sludge.

Passes M271 test for cam and piston ring wear.

Passes OM646LA test (CEC-L-099-08) for cam wear (inlet/outlet), cylinder wear, bore polish, tappet wear (inlet/outlet), piston cleanliness and engine sludge.

Passes MB NEDC fuel economy tests.

#### • Engine wear and durability

Passes Sequence VIII bearing corrosion (ASTM D6709) for bearing weight loss.

Passes Sequence IVB wear test (ASTM D8350) for valvetrain wear

#### • Engine cleanliness

Passes ASTM Sequence IIIG piston deposit test (ASTM D7320) for viscosity increase, piston deposits and cam and lifter wear.

Passes VW TDI piston cleanliness test (CEC L-117-20) test for piston cleanliness, ring sticking.

Passes Sequence VH sludge test (ASTM D8256)

Passes M271 test for engine sludge.

#### • Soot Control

Passes DV6C (CEC L-106-16) oil dispersion at medium temperature test.

### Main Applications

- Shell Helix Ultra Professional AM-L 5W-30 for gasoline and diesel engines is approved against the technically challenging Mercedes-Benz MB 229.51<sup>1</sup>, BMW LL-04<sup>2</sup> low-SAPS specifications.
- It is formulated especially for use in diesel engine vehicles using diesel particulate filter (DPF) technology.
- Its low-SAPS formulation helps to protect DPF systems from plugging.

1 May be used in Mercedes-Benz diesel engines with or without a diesel particulate filter

2 May be used in gasoline engines in the EU, Norway, Switzerland and Liechtenstein

### Specifications, Approvals & Recommendations

- ACEA C3
- API SN
- BMW LongLife-04
- MB-Approval 229.51

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 Ultra Professional AM-L 5W-30
Kinematic Viscosity	@100°C	cSt	ASTM D445	12.11
Kinematic Viscosity	@40°C	cSt	ASTM D445	69.02
Viscosity Index			ASTM D2270	174
MRV	@-35°C	cP	ASTM D4684	14 500
Density	@15°C	kg/m <sup>3</sup>	ASTM D4052	836.1
Flash Point		°C	ASTM D92	238
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 Ultra Professional AM-L 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, 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.