



WITH
Shell
PUREPLUS
TECHNOLOGY

Shell Helix *Ultra Professional* AG 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 General Motors and those requiring API SN or ACEA C3.

Proud Drivers Choose Shell Helix

Performance, Features & Benefits

• Fuel efficiency

Passes the ACEA fuel economy MB M111FE (CEC-L-54-T-96) test with a minimum of 1.7% fuel efficiency improvement.

• General Motors specific in-house tests

Passes GM RNT valve-train wear test GMPTE-T DUR021 for cam and tappet wear.

Passes the GM aeration test GMPTE-T MEC024.

Passes the GM oil release test gasoline engine (OP-1) GMPTE-T DUR020 for viscosity increase, total acid number and total base number after test.

Passes the GM oil release test diesel engine GMPTE-T DUR019 for wear, cleanliness, oil consumption, viscosity increase and low temperature pumpability.

• Engine wear and durability

Passes the Peugeot TU3M valve-train scuffing wear test (CEC L-38-A-94) for cam wear.

Passes the ASTM Sequence VIII bearing corrosion test.

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

• Engine cleanliness

Passes the Peugeot TU5JP-L4 high-temperature deposits (CEC-L-88-T-02) for ring sticking and piston varnish

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

Passes the VW TDI piston cleanliness test (CEC-L-78-T-99) for piston cleanliness.

Passes the ASTM Sequence VG sludge test (ASTM D6593) for engine sludge and varnish.

Passes the MB M271 test for engine sludge.

• Soot Control

Passes the DV4TD medium-temperature dispersivity test (CEC-L-093-04) for viscosity increase.

Main Applications

- Shell Helix Ultra Professional AG 5W-30 for gasoline and diesel engines is approved against the technically challenging General Motors engine oil specification GMW16177 (dexos2™). It is formulated specifically for the dexos2™ specification, which combines parts of API SN, ACEA C3 and in-house General Motors gasoline and diesel engine tests, for use as a global service fill oil.

Specifications, Approvals & Recommendations

- API SN
- ACEA C3
- GM dexos2™ license GB2B0611014
- 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 Ultra Professional AG 5W-30
Kinematic Viscosity	@100°C	cSt	ASTM D445	12.1
Kinematic Viscosity	@40°C	cSt	ASTM D445	69.02
Viscosity Index			ASTM D2270	174
MRV	@-35°C	cP	ASTM D4684	14500
Density	@15°C	Kg/m ³	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 AG 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 Material Safety Data Sheet, 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.