Technical Data Sheet

Shell **Helix** *Ultra Professional AV-L 5W-30*

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

Designed to meet the demanding requirements of Audi and VW high-performance engines.

Proud Drivers Choose Shell Helix

Performance, Features & Benefits

- **Fuel efficiency**

  Passes the Volkswagen fuel economy PV 1451 test.

  Passes the ACEA fuel economy M111FE (CEC-L-54-T-96) test with up to 2.3% fuel efficiency improvement.

- **Volkswagen specific in-house tests**

  Passes the VW PV 1449 (T4) test for viscosity increase and piston deposits.

  Passes the VW PV1452 (TDI) for ring sticking and piston cleanliness.

  Passes the VW PV 5106 cam and tappet wear test.

  Passes the VW PV 1481 test for inlet valve deposits for direct injection gasoline engines.

  Passes the VW DPF (diesel-particulate-trap) test for ash accumulation and pressure reduction.

  Passes the VW RNT (radionuclide wear measurement) test for tappet and cam wear.

- **Engine cleanliness**

  Passes the VW TDI piston cleanliness test (CEC L-117-20)

  Passes Sequence VH sludge test (ASTM D8256) for engine sludge and varnish

- **Soot control**

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

Main Applications

- Shell Helix Ultra Professional AV-L 5W-30 for gasoline and diesel engines is approved against the technically challenging, top-tier VW 504.00/507.00 specifications.

Specifications, Approvals & Recommendations

- API SN
- ACEA C3
- VW Standard 504.00, 507.00
- 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 AV-L 5W-30
Kinematic Viscosity	@100°C	cSt	ASTM D445	12.2
Kinematic Viscosity	@40°C	cSt	ASTM D445	74.0
Viscosity Index			ASTM D2270	159
MRV	@-35°C	cP	ASTM D4684	17 000
Density	@15°C	Kg/m^3	ASTM D4052	836
Flash Point		°C	ASTM D92	240
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**

  Helix Ultra Professional AV-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 https://www.epc.shell.com/

- **Protect the Environment**

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