



Shell Helix Ultra Professional AV-L 0W-30

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

Designed to meet the demanding requirements of particular high-performance engines, including Audi and VW, and those requiring ACEA C3.

Proud Drivers Choose Shell Helix

Performance, Features & Benefits

Fuel efficiency

Passes the VW fuel economy PV 1451 test.

Requires a minimum 2.5% fuel economy increase ¹.

Shell Helix Ultra Professional AV-L achieved up to a 3% fuel economy increase.

¹ versus VW reference oil

Volkswagen specific in-house tests

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

Passes the VW PV 1452 (TDI) test for ring sticking and piston cleanliness.

Passes the VW seals tests.

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 wear and durability

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

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

Engine cleanliness

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

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

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

Soot control

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

Specifications, Approvals & Recommendations

- ACEA C3
- VW 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 help desks.

Main Applications

- Shell Helix Ultra Professional AV-L 0W-30 for gasoline and diesel engines is approved against the technically challenging, top-tier VW 504.00/507.00 specifications.

Typical Physical Characteristics

| Properties | | | Method | Shell Helix Ultra Professional AV-L 0W-30 |
|---------------------|--------|-----|------------|---|
| Kinematic Viscosity | @100°C | cSt | ASTM D445 | 11.90 |
| Kinematic Viscosity | @40°C | cSt | ASTM D445 | 58.70 |
| Viscosity Index | | | ASTM D2270 | 204 |

| Properties | | | Method | Shell Helix Ultra Professional AV-L 0W-30 |
|---------------|--------|-------------------|------------|---|
| MRV Viscosity | @-40°C | cP | ASTM D4684 | 18900 |
| Density | | Kg/m ³ | ASTM D4052 | 838.0 |
| Flash Point | | °C | ASTM D92 | 226 |
| Pour Point | | °C | ASTM D97 | -51 |

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 AV-L 0W-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.