

Intertek UK Transportation Technologies

# Enabling the future of propulsion system innovation

Whether you're working on EVs, hybrids, or next-gen fuels, our responsive, flexible, and expert approach helps you reduce risk, accelerate timelines, and exceed expectations.

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# Tested in the lab. Trusted on the road.

At Intertek UK Transportation Technologies, we help shape the future of mobility through our extensive propulsion test capabilities. As your global automotive testing partner, we deliver cutting-edge support across electric propulsion, internal combustion, hybrid powertrain and fuel systems.



With 30+ years of experience and 24/7 operations, our state-of-the-art Milton Keynes test hubs are primed to shape the future of mobility. Our Tanners Drive facility supports test activities across combustion engines, hybrid powertrains, fuel additives and lubricants. Our Global Electric Vehicle Centre of Excellence, situated at Davy Avenue, features purpose-built eMobility test cells supporting eMachine and eAxle testing.

**Global capabilities. Local commitment**  
Backed by Intertek's global footprint—more than 40,000 employees, 3,000 auditors, 1,000+ labs in over 100 countries—we deliver rigorous, tailored testing that meets both international and local standards. From early stage R&D to final certification, our Total Quality Assurance approach ensures every step meets the highest standards.

Intertek continues to invest in and expand capabilities - supporting innovation across electric propulsion, hybrid integration, and combustion engine development.

- Pushing Electric Propulsion further**
- **eMotor Testing Excellence**  
Our selection of high-speed e-Motor dyno rigs (up to 27,000 rpm and 500 kW) support efficiency mapping, inverter tuning, thermal analysis and endurance testing. We also offer EU Regulation 85 certification, so you can validate performance with confidence.
  - **eAxle (Electric Drive Unit) Testing**  
We operate a range of 2WD eAxle rigs (up to 820 kW, 1100 V, 2000 A) for thermal, durability and range assessments. Our modular 4WD rigs scale to 1.2 MW, enabling high-transient testing and full-system integration.
  - **Whole-Vehicle ePowertrain Testing** Our 1.2MW test chamber features four high-performance hub dynos, with temperature and humidity control across a wide range and representative wind speeds up to 150kph.

This provides an ideal environment to test and validate EV performance under real-world conditions.

- Internal Combustion innovation**
- **ICE & Hybrid Testing that delivers**  
Dedicated combustion engine cells run 24/7 to support everything from small passenger vehicle engines to heavy-duty powertrains (up to 1,000 kW and 1,400 Nm). Our dedicated hybrid test rig capability combines the ability to evaluate combustion engine and emachine together as a complete propulsion system.
  - **Emissions Testing**  
From gas analysers and particle counters to hybrid drivetrain validation tools, we support current and future emissions standards. Whether standalone or integrated systems, we help you optimise performance and minimise environmental impact.
  - **Transmission & Drivetrain Expertise**  
Our rigs test everything from steady-state efficiency to high-transient performance. With speeds up to 25,000 rpm and temperatures down to -30°C, we can demonstrate performance in extreme conditions.

**Leading the way in Fuel & Lubricant Testing**  
As an active CEC member, we operate several ISO 17025-accredited cells for gasoline and diesel fuel testing. From injector fouling to valve cleanliness, our standardised and bespoke tests support fuel innovation across every platform.

**Beyond the Standard**  
We test across many sectors, including automotive, off highway and alternative fuels—using a wide range of OEM engines. As electrification continues, we're at the forefront of EV fluid testing with capabilities already in place to support evaluation of lubricant performance in eAxles.


Testing at a glance	
✓	20 Engine/Driveline Test Cells
✓	9 ISO 17025 Accredited Fuel Test Cells
✓	6 eMotor Test Cells
✓	5 2WD + 4WD eAxle Rigs
✓	High precision flexible rig rooms
✓	Walk-In Environmental Chamber

**More than a lab: an engineering partner**  
Our in-house engineers bring over a century of combined expertise. Whether you're optimising thermal efficiency, fine-tuning hybrid systems, or validating fuel additives, we act as an extension of your team—offering insights, solutions, and agility throughout the development cycle.


- Our wealth of experience has enabled us to support clients throughout the product life cycle with key capabilities including:
- Proof of Concept
  - DVP formulation and execution
  - H/W & S/W Development
  - H/W Durability & Robustness
  - Bespoke RCA testing

**Intertek advantage**  
Intertek is a leading Total Quality Assurance provider to industries worldwide. Our network of more than 1,000 laboratories and offices in more than 100 countries, delivers innovative and bespoke Assurance, Testing, Inspection and Certification solutions for our customers' operations and supply chains.


Intertek Total Quality Assurance expertise - delivered consistently with precision, pace and passion, enabling our customers to power ahead safely.




EV and ICE propulsion systems testing




Fluids, lubricants and materials testing



Environmental and vibration testing



Bespoke testing solutions



Battery and charger testing



# Innovation doesn't wait and neither do we.

If you're developing the next generation of powertrains, fuels or EV systems, let's make sure your testing is just as advanced.



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