

# FUEL, ADDITIVES AND LUBRICANTS TESTING

Intertek Transportation Technologies

**Our laboratory is a 24/7 operation meaning engine maintenance, sample changes, instrumentation calibration and servicing can be performed outside of the normal working day, maximising cell availability for our customers.**



## Our background

Intertek is an industry leader with more than 43,000 employees in 1,000 locations in over 100 countries. We deliver Total Quality Assurance expertise 24 hours a day, 7 days a week with our industry-winning processes and customer-centric culture. Whether your business is local or global, we can help to ensure that your products meet quality, health, environmental, safety, and social accountability standards for virtually any market around the world. We hold extensive global accreditations, recognitions, and agreements, and our knowledge of and expertise in overcoming regulatory, market, and supply chain hurdles is unrivalled.

Intertek Transportation Technologies is an automotive engineering service company based in Milton Keynes, UK that has more than 30 years' experience in dynamometer engine testing. This facility includes one of the most well-established specialist fuels, fuel additive and lubricants testing facilities commercially available to perform most testing to meet current and future European fuel test requirements as well as the ability to perform bespoke drivecycle-based testing.

Our expertise in fuels and lubricants testing extends from the test cells to the public roads and beyond. Intertek offers a wide range of fuel and lubricant testing from CEC

standard engine tests, to road based mileage accumulation or PEMS testing to monitor fuel usage, emissions or engine robustness.

Intertek's award-winning 32 cell test laboratory is trusted by many of the world's leading fuel and lubricant manufacturers to deliver quality data and test cell hours with minimum down-time. Of these 32 test cells 7 are dedicated to fuel and lubricant testing to CEC requirements and are covered by a separate ISO 17025 accreditation.



**CEC**  
TESTING CAPABILITIES  
ISO 17025

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Our expertise extends to the logistics involved in fuel storage and fuel blending. Intertek's Milton Keynes facility has the capability to store any size of fuel sample from individual barrels and IBCs to large quantities of bulk fuel which can be stored in our overground

or underground tanks (up to 20,000 litres). Intertek has many sister laboratories in the UK and overseas that can handle fuel and oil sample analysis, from simple RON and MON measurements right up to the more complex speciation of the components of samples or forensic analysis of sample contents. The intellectual property of customers products or formulations are paramount to Intertek and all samples and fuels are maintained to the highest standards and our facilities are rigorously maintained to ensure no cross contamination of products occurs.

Our team is led by expert engineers with more than 25 years' experience in fuel and lubricant testing, to allow Intertek to offer world class customer service and advice on test programmes.

## FOR MORE INFORMATION



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Intertek offers full post-test analysis, photography and reporting services

**The following CEC specification testing can be conducted:**

- CEC F 05 93 M102E Gasoline inlet valve and combustion chamber deposits
- CEC F 20 98 M111 Gasoline inlet valve
- CEC F 23 01 XUD9 Diesel injector nozzle coking
- CEC F 98 08 DW10B Diesel injector nozzle fouling
- CEC TDG F 110 DW10C Internal Diesel injector deposits
- CEC L-082-97 Spectrophotometric determination of soot in oil
- CEC L-083-97 Kinematic viscosity measurement of used oil
- CEC L-106-14 DV6 Test development sponsor
- CEC TDG L 111 EP6CDT Piston Cleanliness Test development sponsor

Our facilities are fully accredited to ISO 9001 and can operate 24/7. All of the fuel and lubricant test cells are recognised by the CEC and the ATC ERC.

**Key features**

- CEC Working Group member organisation
- ATC ERC recognised test facility
- Industry leading test to test repeatability
- Unparalleled test cell uptime for maximum test efficiency
- Superior speed of response and test parameter control
- Immediate post test analysis and results supply
- Bespoke drivecycle creation expertise
- Engine strip and build
- Base fuel supply, preparation and storage
- Fuel blending and dosing capability
- Online fuel blending system for long duration programmes
- Injector nozzle preparation and supply
- Multiple test cells and expert team of dedicated engineers & technicians
- Senior experts with more than 25 years' industry experience
- Dedicated rating room and teardown area
- Highly trained component rating team to ASTM and CEC standards
- Photographic studio to support post test analysis
- Formal reports created to order
- Round Robin data available
- Customer offices with free WI-FI and refreshments for convenience and access to facilities



To find an office or laboratory in a particular country, please visit [intertek.com/contact](https://www.intertek.com/contact)

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