

## CEC Fuel Testing

Millbrook can perform industry recognised DW10B, XUD9, M102E, M111 and VW Water Boxer CEC testing with its dedicated test facilities as well as a variety of bespoke tests, applications and service.

Millbrook offers multiple engine test cells with infrastructure for fuels testing and a secure fuel blending and storage area. It offers standard CEC and bespoke fuel tests on engines, passenger cars, heavy duty, freight and motorcycle engines for test assessments, utilising its extensive experience of working with customers to develop specific tests.

### Capabilities

- Impartial, blind testing using standardised methodologies
- UKAS accredited ISO17025 testing laboratory, no. 2498
- Value rating experts trained by CEC
- Value/parts raters available to conduct 'correlation' exercises on customer sites
- Combustion analysis measurement and high accuracy/frequency fuel consumption measurements
- Material and chemical deposit analysis
- High definition component photography available (eg. valves, injectors and deposits)
- Secure, on-site fuel storage for small blends (barrels and IBCs) and large volume batch storage (from 5,000l above ground to 18,000l underground)
- Gravimetric treating of fuels from a bulk additive container, for on-site management of varying treat rates
- Full stainless steel, temperature controlled fuel delivery to cells from barrel, IBC and custom built fuel hoppers



Millbrook Proving Ground Ltd  
Millbrook, Bedford, MK45 2JQ, UK  
+44 1525 404 242 • [info@millbrook.co.uk](mailto:info@millbrook.co.uk)

[www.millbrook.co.uk](http://www.millbrook.co.uk)



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### Applications

- On-site blending of additives and contaminants into base fuels
- Blending of 'one-shot' treatments into fuel to ensure blind testing
- Adaptable methodologies; extended running, additional cycles, non-standard pre and post-test assessments, dirty up/clean up running and reporting
- Fuel additive screening trials
- Flexibility to run multiple activities in parallel such as vehicle emissions, driveability and performance

### Advantages:

- Impartial testing with report supplied from independent test facility
- Vast knowledge of CEC procedures and application which enables similar testing on alternative engines (eg. generators, motor bikes, train engine and others)
- Turnkey projects from CEC methods into whole vehicle fuel consumption, emissions, performance, driveability testing, using Millbrook's extensive tracks

