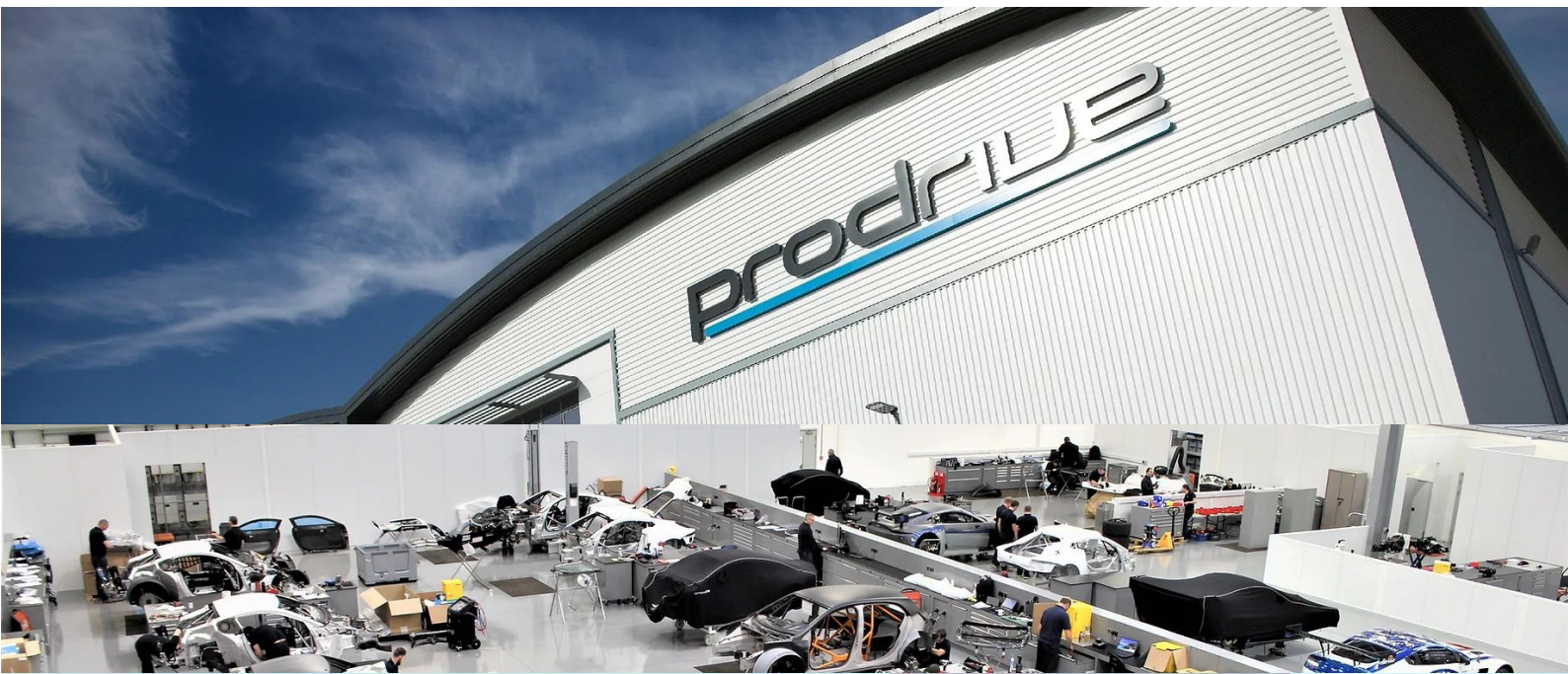




REPORT: CEC TESTS by PRODRIVE



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The Coordinating European Council

Maintaining existing tests on an ongoing basis, concentrating on quality assurance

CEC Member Organisations





Summary

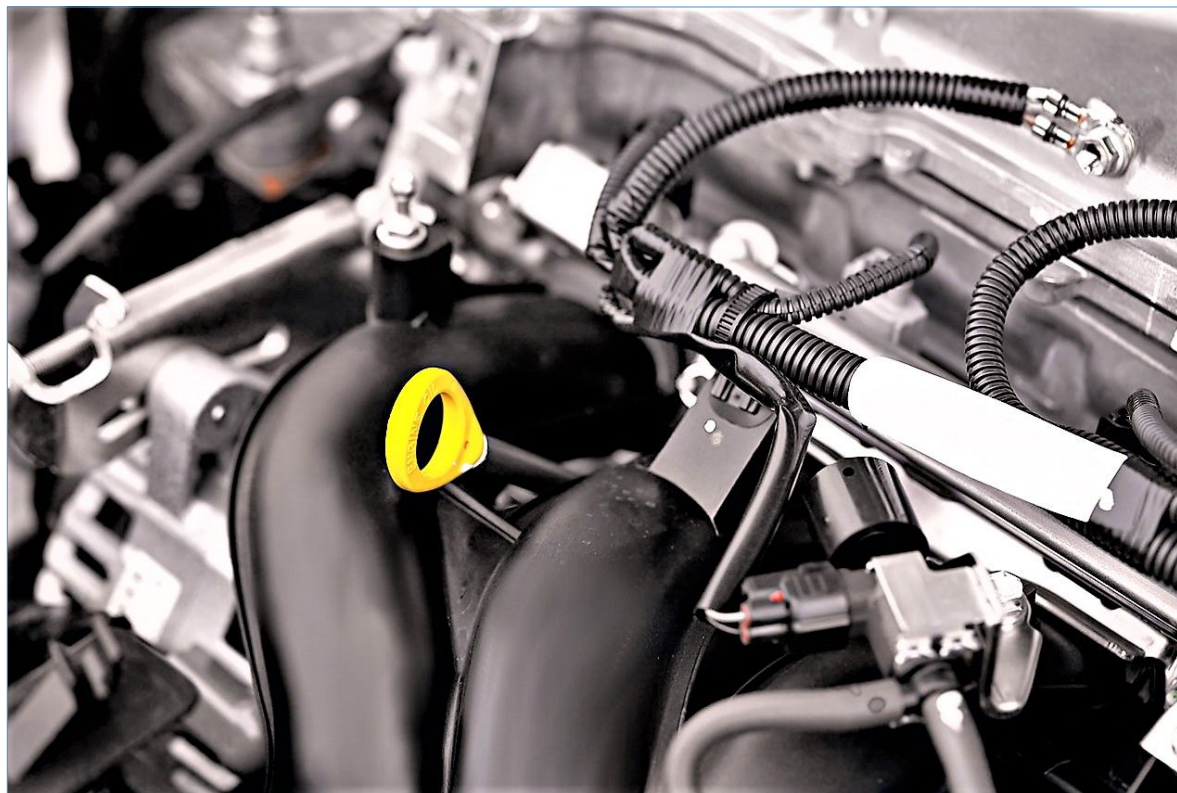
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Better fuel,
better performance.
Better combustion,
better emissions.
XBEE: naturally better.

Context

CEC develops procedures to test performances of fuels, lubricants and other fluids. This is the European organization considered as an international reference and recognized by more than fifty car manufacturer, gas companies and oil producers.

Prodrive is a world leading motorsport and advanced technology business. Their business and culture is founded in motorsport but they also help businesses in the automotive, aerospace, marine and other sectors create innovative engineering solutions which realize their ambitions.



Data

1 | Diesel engines

For Diesel engines, procedure CEC F-23-A-01 controls the formation of deposits on the injector nozzles of an indirect injection diesel engine (PSA Peugeot XUD9 – A/L 4 cylinders – 1.9 l).

These two consecutive tests have been performed by the English laboratory Prodrive on July 17 and 18, 2005 under control of Garry Polkinghorne.

Nozzle coking level must be comprised between 85% and 95% to be officially recognized by the companies here below. This 10-hour test using a severe-fouling calibration test fuel demonstrates that XBEE will not cause additional injector deposits, assuring that treating fuel with XBEE will not compromise international fuel specifications.

2 | Gasoline engines

For Gasoline engines, procedure CEC F-05-A-93 evaluates the formation of carbon deposits on the intake valves of an injection gasoline engine (Mercedes-Benz M102.982 – 4 cylinders – 4 strokes – 2.3 l), equipped with Bosch KE-Jetronic fuel injection equipment.

As the first test, this one has been performed by the English laboratory Prodrive on July 22, 2005 under the same control.

Inlet valve deposits level must be comprised between 4.5 (extremely heavy) and 10 (clean) to be officially recognized by the professional associations mentioned here below: **XBEE Enzyme Fuel Technology** makes the fuel at 8.07 in only 60 hours, i.e. 287 mg in average (lowest at 215 mg) against 314.25 mg for the same fuel in the same engine without XBEE.

Annexes

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ATIEL Members

The screenshot shows the ATIEL website interface. At the top left is the ATIEL logo with the tagline "Energy Services in a Connected World". In the top right corner, there is a navigation menu icon (three horizontal lines) and a button labeled "Members". Below the header, the main heading "ATIEL Members" is displayed in a large, bold font. The central area of the page features a grid of logos for various member companies, arranged in four rows. The logos include Valvoline, aramco, bp, CEPSA, Chevron, eni, ERGON, Q8, ExxonMobil, SK enmove, FUCHS, galp, Gulf, idemitsu, ORLEN OIL, PETRONAS, REPSOL, and Shell. The bottom row contains the TotalEnergies logo and a partially visible logo for UEL.



8, am Wapp
3841 Schiffflange
Luxembourg

customerservice@xbec.com
+352 691 668900

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