



[www.ssc.it](http://www.ssc.it)

In Italy, the **SSC**, Experimental Fuel Station, comes directly under the Italian Ministry of Industry.

The SSC is accredited by the **SINAL** (**S**istema **N**azionale per l'**A**ccreditamento di **L**aboratori, the Italian laboratory accreditation body) for a large series of test methods on fuel (EN 45001 standard).

Now based in Milan, the **SSC** has been recognized since 1940 in all sectors of the economy dealing with fossil fuels and their by-products. The Institute is indeed funded by the leading fuel importers (gas, oil, coal).

In March 2005, Italian company **Fleet Consult** asked the **SSC** to develop a program to monitor diesel vehicle emissions and consumption (FIAT Marea 1.9 JTD SW Euro 3, Common rail).

The program analysed:

- ✓ regulated polluting emissions: CO, HC, Nox;
- ✓ particles and CO<sub>2</sub>; and
- ✓ diesel consumption.

A regulatory test under the New European Driving Cycle (NEDC, directive 98/69CE) implementing sampling procedure ECE 15 as specified in directive 91/441/CEE, the cycle being subdivided into two cycles, the Urban Driving Cycle (UDC) and the Extra-urban Driving Cycle (EUDC).

Each of these experiments were carried out in three times in strictly identical conditions to guarantee the repeatability of the results.

Here are the NEDC (UDC + EUDC) results  
Comparing a standard fuel with Xbee diesel oil:

- ✓ CO Carbon Monoxide: -4.8%
- ✓ HC Unburned hydrocarbons: -3.3%
- ✓ NO<sub>x</sub> Nitrogen Dioxide: +6.9%
- ✓ CO<sub>2</sub> Carbon Dioxide: -2.4%
- ✓ PM Particles: -2.4%
- ✓ Consumption: -2.4%

For only 6,500 Km!

*Complete original report is available upon request.*



#### Engines and fuels guarantees:

α **Xbee** is at least recognized by some of the most important engines manufacturers.



α On the other hand, **Xbee** respects the European regulation EN 590 Diesel norm and CSR 500 IFO 380 norm.

#### **SSC**

Ing. Francesco Avella  
Viale A. de Gasperi 3  
I-20097 San Donato Milanese MI

 +39 (0) 2 516 041

 [avella@ssc.it](mailto:avella@ssc.it)

 <http://www.ssc.it>

#### **Sinal**

Piazza Mincio 2  
I-00198 Roma

 +39 (0) 6 844 0991

 [info@sinal.it](mailto:info@sinal.it)

 <http://www.sinal.it>