

The national railroad company **Kazakhstan Temir Joly** has realized a trial program from August 22 to September 5, 2006. The company used **Xbee** in four large motor cars: 3-TE10M, 2-TE10M and TEM-2 models.

The trial was processed in standard methods at different levels of power and over three consecutive tests.

Many measures have been done, some of them by the institute **D.V. Sokolski**. The following results have been observed:

- Reduction of the fuel consumption by -11% in average;
- Reduction of the CO – Carbon Monoxide by -37.13%;
- Reduction of the NOx – Nitrogen Oxide by -17.49%; and
- Reduction of the HCs – Hydrocarbons by -24.51%.

The performances of the engines also clearly increased and the maintenance of the parts during work has been enhanced.



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.

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