



Testa & Cunhas company owns a fleet of 14 trawlers that are based in the main fishing ports of Portugal : Matosinhos, Aveiro, Peniche, Sesimbra, Setúbal, Portimão.

After having tested **Xbee** biotechnology on board two of their vessels during 2007 and 2008, **Testa & Cunhas** company decided to extend the use of **Xbee** on four more vessels in the course of 2009, as they have been fully satisfied by the initial test.

M/V SATURNO
MP Yanmar M220
600 HP – 900 RPM

Xbee biotechnology enabled to sort out problems of bacteria presence in tanks (in 6 months time) and to greatly improve engines cleanliness.



Daily tank of *M/V Saturno*: opened only once in 10 years after 6 months of use of **Xbee**.



Cylinder head of *M/V Saturno* after 10000 hours of running of which last 3500 using **Xbee** (about 6 months).

Furthermore the Company is reporting the following facts :

- ✓ Decreased engine temperature;
- ✓ Reduction of lubricant consumption: by 15 up to 30% depending on the type of engine;
- ✓ Reduced consumption of Diesel filters; and
- ✓ Reduced fuel consumption.

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.

Testa & Cunhas SA

Antonio Miguel Cunha
Avenida Marginal
PT-3830-552 Gafanha da Nazaré

+351 (0) 234 390 850
antonio.cunha@testacunhas.pt
<http://www.testacunhas.pt>