

The **Sociedade de Pescas Miradouro, SA.**, a company set up in 1965 and based in Aveiro, is the largest Portuguese fishing company. It operates a fleet of 22 vessels composed as follows:

- ✓ 8 trawlers catching fresh fish on the Portuguese coast;
- ✓ 12 shrimp trawlers off the Guinea Bissau and Mozambique coasts; and
- ✓ 2 pelagic factory vessels operating in NAFO, Irminger Sea, Norway and Svalbard waters.



The company started using **Xbee** on board two of the shrimp trawlers based in Mozambique in the beginning of 2007: *M/V Indico* and *M/V Tropico*.

After two years of full experiment of **Xbee** biotechnology, **Miradouro** technical managers decided to extend the use of the product to all other vessels operating in Mozambique waters.

The Chief engineers reported the following benefits:

- ✓ reduction of smokes _ less emissions of gases and particles;
- ✓ cleaner engines _ reduced accumulation of carbon deposits:
Number of running hours between two engine maintenance operations of carbon residues removal has been significantly increased; from 7-8000 hours up to 201-21000 hours in the case of MAK 6M451AK engines.
- ✓ cleaner tanks _ reduced accumulation of sludge;
- ✓ reduced consumption of lubricant and filters; and
- ✓ estimated fuel consumption reduction by -2 to -4%.

Engines and fuels guarantees:

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

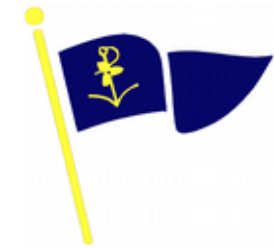


α On the other hand, **Xbee** respects the European regulation EN 590 Diesel norm and CSR 500 IFO 380 norm.

Sociedade de Pesca Miradouro, SA.

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SOCIEDADE DE PESCAS
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