



Two to protect Spain

IT&S took the opportunity recently of visiting Astilleros Armon in Spain to inspect the 56.00m x 15.00m *Luz de Mar* as the ship was undergoing final preparations for the handing over ceremony and after successful sea trials had taken place off Vigo. Performance exceeded requirements.

Even when this large rescue and anti pollution tug has been delivered to Spanish Government agency SASEMAR, the Armon Group has more than 40 vessels to build at

its four yards on the country's north and west coasts. These include a second identical unit for this customer, around a dozen FiFi 1 tugs, both Voith and ASDs, for various European owners located in Belgium, Spain, Italy and Portugal, plus a host of large fishing boats. A number of further tug orders from other countries are in the pipe-line, according to commercial director, Ricardo Garcia.

Luz de Mar is a remarkable vessel. Designed totally in-house at Armon's Navia-based head office, the boat's interior is incredibly spacious with 18 single en-suite cabins plus two four berth cabins (for 'extra' crew, such as divers), a hospital and a survivor room for 15 persons. All berths are a generous 1.2m wide.

Its capabilities are also extraordinary, with 128.5 tonnes bollard pull and a free-running speed of 16.4 knots recorded on official sea trials from a pair of 8M 32C MaK diesels, having a total of 7,680hp, turning Schottel 3030 CP Rudderpropellers. It is equipped with two Kamper Oil Spill Equipment (KOSEQ) arms, and three similar independent Ibercisa winches of which two are arranged waterfall fashion on the aft deck.

To assist with oil boom deployment, the vessel also carries a 9.90m x 3.20m aluminium workboat powered by a single 235hp diesel. This boat was built by Auxiliar Naval –

OWNER
SASEMAR, Spain.

BUILDER/DESIGNER
Astilleros Armon, Navia, Spain.

DIMENSIONS
Length **56.00m**
Beam **15.00m**

MAIN ENGINES
Two 8M 32C MaK engines, each developing a total of 7,680.

PROPULSION
Two Schottel SRP 3030CP Rudderpropellers.

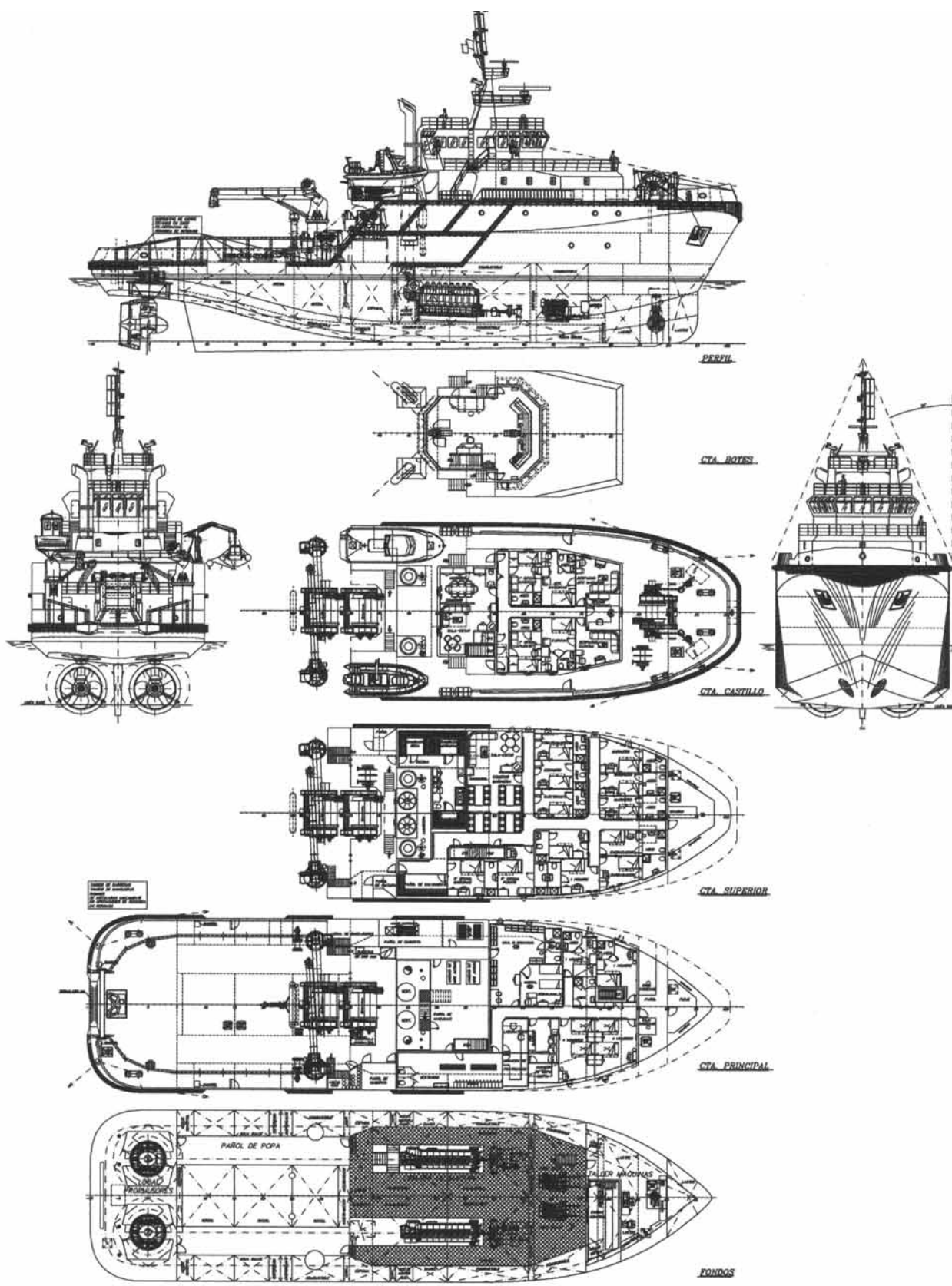
PERFORMANCE
Bollard pull **128.5 tonnes**
Speed **16.4 knts**

EQUIPMENT
Kampers oil spill systems, three Ibercisa winches.

another division of the Armon Group.

At ITS 2006 next April in Rotterdam, Garcia is to present a paper on the design, construction and operation of *Luz de Mar* and its sister.





LUZ DE MAR