



# Frederiet Ardea & Mergus

## 4 700 DWT Bitumen Carrier

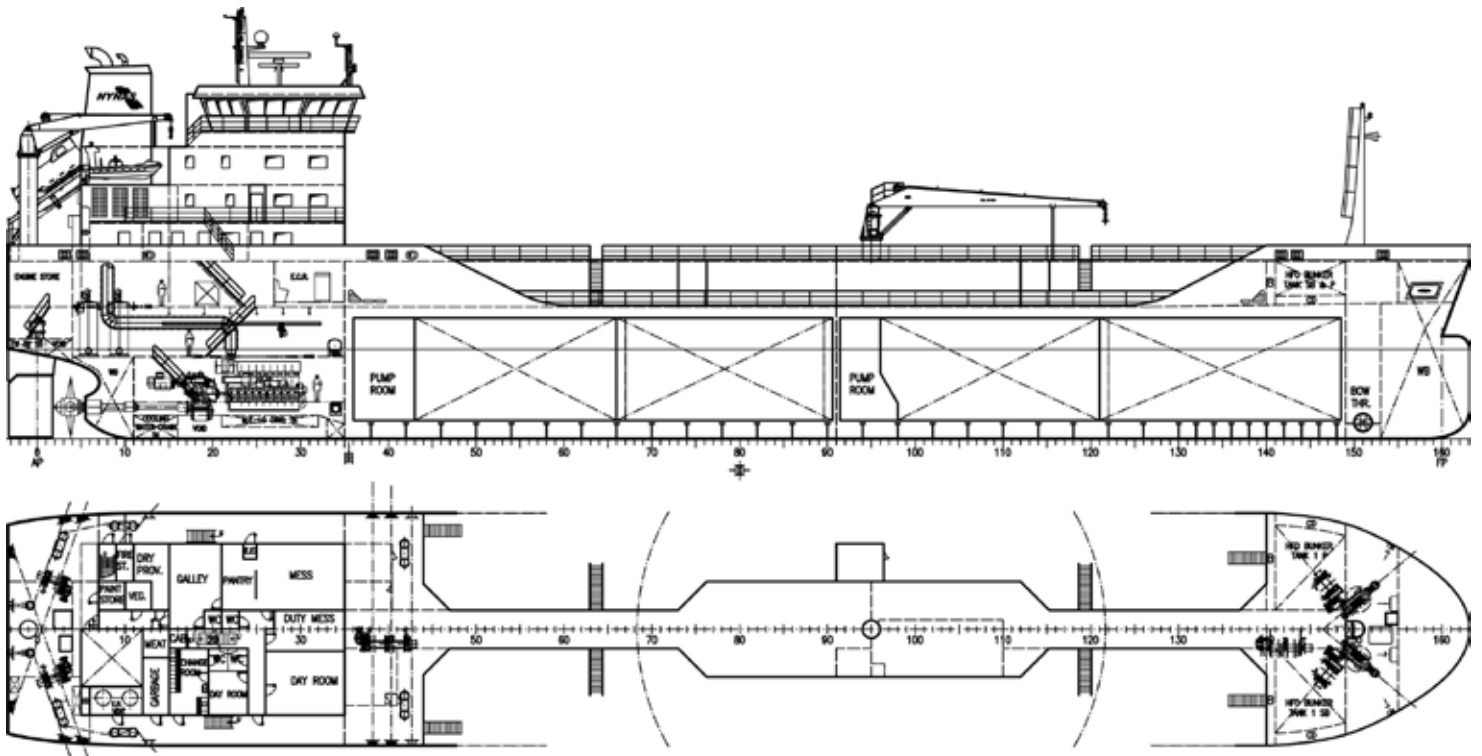
### GENERAL

The ratio between deadweight and certain geometrical requirements in a number of ports have been a main focus for the FKAB I12 design. To reach the required deadweight she has full body and a lot of emphasis has been on space effective internal design of cargo-, engine- and accommodation spaces onboard.

The FKAB I12 is designed to handle cargo with a temperature of up to 250°C. The high temperature variations requires special design considerations; mainly because of thermal expansion of tanks and pipes. The FKAB I12 has two tank blocks with four tanks in each. Each tank block is only fixed in the middle and therefore able to move longitudinal depending on temperature. Each tank block also has an integrated pump room. All cargo tanks are isolated.

### MAIN FIGURES

Cargo cubic capacity, incl sloptanks (100%)	4 300 m <sup>3</sup>
Deadweight at design draught	4 700 tonnes
Max cargo temperature	250 °C



## MAIN PARTICULARS

Length over all	99.9 m	FW tanks	60 m <sup>3</sup>
Length between PP	96.0 m	Water ballast	2 000 m <sup>3</sup>
Breadth mld	15.86 m	Main engine	4 000 kW
Depth mld	9.0 m	Aux engines	3 x 590 kW
Draught design	6.1 m	Shaft generator	900 kW
Draught scantling	6.5 m	Bow thruster	700 kW
Deadweight at design draught	4 700 tonnes	Cargo pumps	4 x 350 m <sup>3</sup> /h
Cargo capacity	4 300 m <sup>3</sup>	Ballast pumps	2 x 400 m <sup>3</sup> /h
HFO tanks	350 m <sup>3</sup>	Accommodation	16 pers
DO tanks	75 m <sup>3</sup>	Service speed (7.8m) 85% MCR	14.0 knots

## CLASS

BUREAU VERITAS: I\* HULL\*MACH, Oil Tanker-ESP/Asphalt Carrier, Max. temperature 250 °C, Unrestricted Navigation, Finnish-Swedish Ice Class IA, \*AUT-IMS, SYS-NEQ, \*VeriSTAR-Hull, MON-SHAFT VeriSTAR-Machinery.

NO. OF BUILT VESSELS	YARD	OWNER	FLAG	DELIVERY YEAR	SCOPE
2	Jiangbei Yuanhan Ship Manufacturing Co. Ltd.	Swedish	Cyprus	2012	Basic Design