

BLUE MARJAN – Inland tanker



Shipbuilder: **Concordia Damen Shipbuilding B.V**
 Vessel's name: **Blue Marjan**
 Owner/Operator: **Jupiter 8 Limited**
 Country: **Bermuda**
 Designer: **Concordia Damen**
 Country: **Netherlands**
 Model test establishment used: **CFD**
 Flag: **Netherlands**
 ENI number: **02339279**
 Total number of sister ships still on order: **39**

Unlike most of the ships in this edition of *Significant Ships*, *Blue Marjan* is not intended for deep-sea work and is intended solely for working on European rivers. The ship is the first in a series of 40 inland tankers designed by Concordia Damen in the Netherlands to be operated by a joint venture between Dutch logistics company VT Group and Cyprus-based Marlow Navigation. Known as the Parsifal tankers, all of the vessels will be chartered by Shell to carry mineral oils and chemicals between Antwerp, Rotterdam, Amsterdam and along the Rhine network. *Blue Marjan* is one of 39 vessels that were entrusted to Shipyard Kladovo in Serbia. The one remaining vessel was built at Shipyard De Hoop Lobith in the Netherlands.

Because the water levels on the Rhine and its tributaries can sometimes drop to low levels, the series of ships, which are 110m in length and 11.5m wide, have been designed with a draught of just 3.25m.

They are considered eco-friendly vessels and their electric propulsion system is powered by a pair of MAN Rollo marine generator sets driven by V12 E3262 LE 201 gas engines, each rated at 525kW at 1,800rpm. Fuel systems for the engines have been supplied by Cryonorm and feature 60m³ type C LNG tanks. A MAN Rollo D2676 LE328 fuelled by MGO and producing 290kW will add back-up power. The main propulsion motors are two TF46 100-24WWR Oswalds with an output of 55kW.

The ships have eight cargo tanks with a total cargo capacity of 3,030m³. Marflex MDPD80 pumps are installed in each tank for cargo handling.

TECHNICAL PARTICULARS

Length oa: 110.00m
 Length bp: 106.43m
 Breadth moulded: 11.40m
 Depth moulded
 to main deck: approx. 3.50m
 to upper deck: 4.975m

Width of double skin
 side: 1,000mm
 bottom: 700mm
 Draught
 design: max. 3.25m
 Displacement: 3,769t
 Lightweight: 732t
 Deadweight
 design: 2,800t
 Speed, service (100%MCR output): 16km/h
 Cargo capacity (m³)
 Liquid volume: approx. 3,030m³
 Bunkers (m³)
 MGO: 20m³
 LNG: 60m³
 Water ballast (m³): 1,328m³

Daily fuel consumption (tonnes/day)
 Main engine only: 0.18m³/h

Classification society and notations: + A1
 I.W.W. Tanker Type C
 In Association with a list of Defined Cargoes
 L.S. "T" p.v. +50 kPa S.G. 1.0
 (+) LMC, LPPF (GFNG)

% high-tensile steel used in construction: 23%
 approx.

Propulsion
 Main engine(s)
 Design: Generator engine for main propulsion
 Model: Natural Gas Engine E3262 LE 262
 Manufacturer: MAN Rollo
 Number: 2
 Type of fuel: Natural gas (LNG)
 Output of each engine: 525kW
 Is this a diesel-electric or hybrid?: Y

Gas-electric
 Design: Generator engine and main propulsion
 Model: D2676 LE 328
 Manufacturer: MAN Rollo
 Number: 1
 Type of fuel: MGO
 Output of each engine: 290kW
 Is this a diesel-electric or hybrid?: Y

Diesel-Electric
 Design: E-motor main propulsion direct driven
 Model: TF46. 100-24WWR
 Manufacturer: Oswald
 Number: 2
 Type of fuel: Electrical
 Output of each engine: 500kW
 Is this a diesel-electric or hybrid?: Y

Propeller(s)
 Material: CuNiAl
 Designer/Manufacturer: SIP Marine
 Number: 2

Fixed/Controllable pitch: fixed
 Diameter: 1,500mm
 Speed: maximum: 320-350rpm
 Exhaust-gas scrubbing equipment
 Manufacturer: MAN-Rollo
 Type: SCR
 On main engines?: On the MAN-Rollo Diesel, Engine 3

Stern appendages/special rudders:
 - Propeller Nozzle, 2x, high efficiency nozzle
 - 4x hydrodynamic profile rudders

Bow thruster(s)
 Make: Veth
 Number: 1
 Output (each): approx. 450kW

Other cranes
 Number: 1
 Type: davit
 Tasks: lowering overboard rowing boat aft
 Performance: SWL = 350kg

Mooring equipment
 Number: 2
 Make: DMC Damen Marine Components
 Type: electric

Cargo tanks
 Number: 8
 Grades of cargo carried: mineral oils
 Product range: mineral oils

Cargo pumps
 Number: 8
 Type: MDPD80
 Make: Marflex
 Stainless steel: yes
 Capacity (each): 100m³/hour
 Complement

Crew: 5
 Single/double/other rooms: single
 Navigation and other equipment

Bridge control system
 Is bridge fitted for one-man operation? Y
 Integrated bridge system: N

Radars
 Number: 2
 Make: JRC
 Model(s): JMA 610

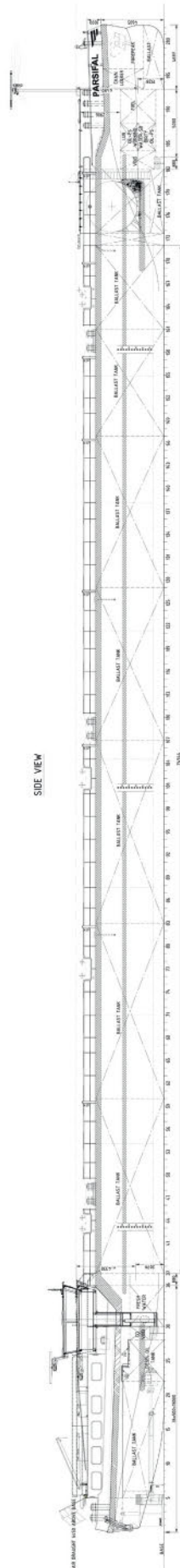
Fire detection system
 Make: Thorn
 Type: M600Ex

Fire extinguishing systems
 Engine room: Novec 1230
 Make/Type: Minimax

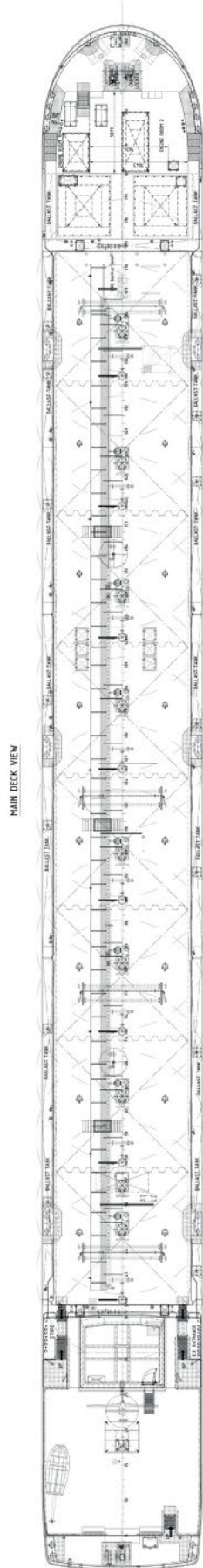
Efficiency
 Other installed monitoring tools: loading, tank, cargo

Energy Saving Technologies: LNG propulsion, LED lighting

Contract date: November 2020
 Launch/float-out date: June 2021
 Delivery date: January 2022

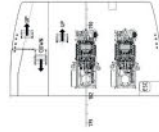


SIDE VIEW



MAIN DECK VIEW

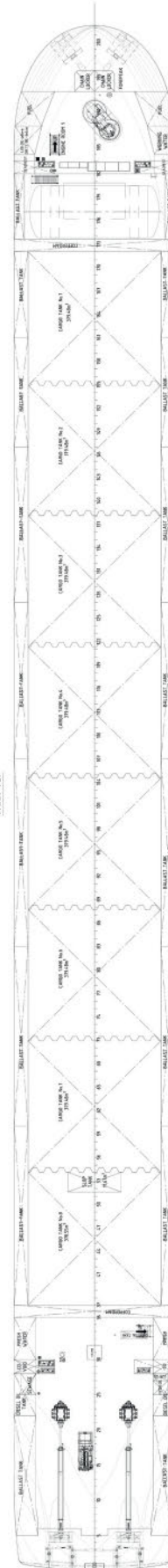
3200 PLATFORM



AFT DECKHOUSE



TANK TOP



SECTION

