



Bitumen Carrier

7 200m³ Chemical & Product Tanker for chemicals (IMO II)

GENERAL

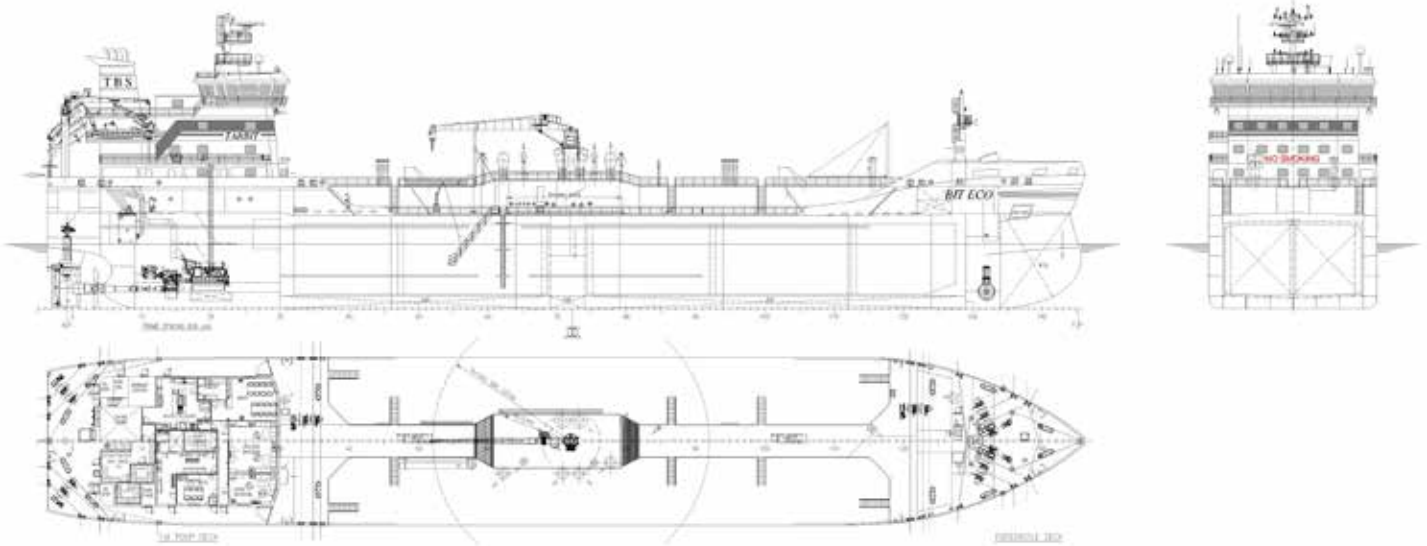
The FKAB design is a bitumen, chemical and product oil tanker with independent cargo tanks for bitumen and asphalt with a temperature of up to 250°C. The vessel is designed with single bottom and double sides for ballast water.

The high temperature variations require special design considerations, mainly because of thermal expansion of tanks and pipes. The cargo tanks consist of two blocks, forward and aft of the pump-room, with five and four tanks respectively in each block. Each tank block is only fixed in the middle and therefore able to move longitudinally, depending on the temperature. There is no structure inside the cargo tanks.

Propulsion is provided by Four (4) stroke, medium speed diesel engine with a gearbox to be fitted with PTI/PTO and shaft generator coupled to a CP-propeller. Take me home device, to comply with ice rules, PTI from the auxiliaries.

In order to save fuel the shaft generator is connected via a frequency converter allowing optimum propeller rpm at various speed.

Fuel consumption per 24 hours at the service speed 13 knots 80% MCR including shaft generator engaged at normal service condition abt 11,7 MGO and 15% sea margin. Cruising range is to be 14 000 nm with FO.



MAIN PARTICULARS

Length over all	119,90 m	Main engine	Four stroke, medium speed 3 480 kW at 750 rpm
Length between PP	116,20 m	Aux engines	1 x 975 kW and 1x 645 kW
Breadth mld	19,40 m	Shaft generator	1 050 kW (PTI/PTO/PTH)
Depth mld	10,80m		2 x oiled fired thermal oil heaters 2 x 1 500kW
Draught design	7,35 m		1x main engine exhaust gas heater to supply thermal oil heating plant.
Draught scantling	8,30 m	Bow thruster	800 kW
Deadweight at design draught	7 760 tonnes	Cargo pumps	3 x 400 m ³ /h
Deadweight at scantling draught	9 400 tonnes	Ballast pumps	2 x 400 m ³ /h
Cargo capacity	7 200 m ³	Accommodation	15 pers
HFO tanks	400 m ³	Gross tonnage	7 398
MDO tanks	200 m ³	Nett tonnage	2 219
Technical FW tanks	50 m ³	EED	10,6
Domestic FW tanks	70 m ³		
Water ballast	2 700 m ³		

CLASS

Bureau Veritas: I + HULL, +MACH, Oil Tanker/ Chemical Tanker/Asphalt carrier, Max cargo temp. 250C, IMO 2, Finnish-Swedish ice class 1A, Unrestricted navigation, AVM-APS, AUT-IMS,SYS_NEQ,SYS-IBS,MON-SHAFT, Inwater survey; Clean ship super. ESP, Unrestricted Navigation, Ice 1A, AUT-IMS , SYS-IBS-1,MON-Shaft, VCS,