

THE SAMBA CLASS

CONTINUING OUR FOCUS ON
ENHANCED OPERATIONAL PERFORMANCE
AND ENVIRONMENTAL LEADERSHIP

Built by Samsung Heavy Industries Co. Ltd.



Samba Spirit	delivery in Q2 2013	IMO: 9637686
Lambada Spirit	delivery in Q2 2013	IMO: 9637698
Bossa Nova Spirit	delivery in Q3 2013	IMO: 9637703
Sertanejo Spirit	delivery in Q4 2013	IMO: 9637715

Designed for offshore loading in Brazil, the Samba Class shuttle tankers are more efficient and eco-friendly than any of their predecessors.

Key features include:

- Bow Loading System (BLS) for loading and discharging with Dynamic Positioning (DP) – for maximal safety
- Improved hull shape and thruster technology – for minimal fuel consumption
- Ballast water treatment system and increased cargo tank pressure (CVOC, KVOC) – to further minimize the impact on the environment

GENERAL SPECIFICATIONS (approx.)

Principal Dimensions

Length, overall.....	282 m
Breadth, moulded.....	49 m
Draft, design.....	16.20 m
Draft, scantling.....	17.2 m
Deadweight, scantling.....	154,797 mt
Service speed.....	14.5 knots
Cruising range.....	18,000 nm

Capacities

Cargo tanks incl. slop tanks ..	165,539 m ³
Slop tanks	5,888 m ³
Fuel tanks.....	3,135 m ³
Gas oil/diesel oil tanks.....	544 m ³
Fresh water tanks	500 m ³
Ballast tanks incl. peak tanks ..	45,475 m ³
Accommodation	34+6 persons

Rules, Regulations and Requirements

Rules, regulations and requirements of relevant authorities valid as of shipbuilding contract date.

- ABS Class
- Bahamas flag registry requirement
- BG Group Basis of Design
- Teekay Offshore Loading System Specification
- Petrobras Shuttle Tanker Technical Requirements

Class Notations

ABS, + A1E, Oil Carrier, CSR, AB-CM, DPS-2, SH, SHCM, SH-DLA, SFA(25), HIMP, RES, PMA, CPS, IGS-BALLAST, +AMS, +ACCU, +APS, NIBS, ESP, VEC-L, TCM, R1(single shaft), UWILD, POT, ENVIRO+, GP, BLU, BWE, Statement of Compliance for DNV's F-AMC, HM1+R Slam Warning, HM2+R Hull Girder Stress

First Class Equipment Manufacturers

Main engines	MAN B&W
Auxiliary engines	HHI Himsen
Thrusters.....	Brunvoll
Bow loading system.....	Aker Pusnes
DP.....	Kongsberg
Boilers / Inert Gas Plant ...	Alfa-Laval Aalborg
Cargo / ballast pumps.....	Shinko
Electrical equipment	Samsung
ICMS / Navigation /	
Radio / CCTV.....	Samsung

Machinery

Main eng., MAN 6S70ME-C	14,270 kW
Aux. eng., 2 HHI x 9H32/40.....	4,500 kW
Aux. eng., 2 HHI x 6H32/40	3,000 kW
El. Power.....	6.6 kV / 440 V
Aux. Boiler	2 x 30 tons/hr
Economiser.....	1 x 1,6 tons/hr

Rudders and Thrusters

Main propeller, 4 blades.....	1 CPP
Rudder, High Lift.....	1
Steering gear	1
Forw. tunnel thruster	1 x 2,200 kW
Forw. azimuth thruster.....	2 x 2,200 kW
Aft azimuth thruster	1 x 2,200 kW
Aft tunnel thruster.....	1 x 2,200 kW

Bow Loading System

Brazil type – capacity	8,000 m ³ /h
Traction winch.....	700 kN
Hose handling winch	400 kN
Service crane	1 x 5 tons

Cargo & Ballast Equipment

Cargo tanks / slop tanks.....	12 / 2
Segregation.....	3
Cargo pumps.....	3 x 3,800 m ³ /h
Cargo stripping	1 x 240 m ³ /h
Cargo stripping eductors.....	2 x 600 m ³ /h
Inert gas generator	14,250 m ³ /h
Inert gas topping-up generator...	500 m ³ /h
Ballast pumps	2 x 2,500 m ³ /h

Navigation & DP

Navigation: 2 radars, 2 ECDIS, 3 gyros, adaptive autopilot, 2 DGPS, AIS, VDR, etc.

DP: K-POS, Artemis, 2 DARPS, Cyscan, Blom RPMS, BLS telemetry

Environmental

- Protected locations of bunker tanks
- Clean design with Green Passport
- IMO Tier 2 NOx Compliance
- **KVOC, CVOC & increased cargo tank pressure**
- Shipboard effluent control and treatments system
- Ballast water treatment system
- Cargo loading & discharging over BLS
- Inert gas system for ballast tanks
- Purpose built SPM mooring system