

GAS TAURUS: Very large gas carrier

Shipbuilder:	Jiangnan Shipyard
Vessel's name:	(Group) Co.Ltd.
Hull No:	H2535
	uthwest Maritime Limited
Country:	Hong Kong
Designer:	Jiangnan Shipyard
Country:	(Group) Co.Ltd. China
Model test establishment	Cilila
	hanghai Ship & Shipping Research Institute
Flag:	Hong Kong
	9710385
Total number of sister ship already completed (excli	
	None
Total number of sister ship	s still on order:2

With a 83,000m³ capacity and four IMO Type A independent prismatic cargo tanks as the cargo containment system, *GAS TAURUS* is the first vessel of three very large fully refrigerated liquefied gas carriers (VLGCs) constructed by Jiangnan Shipyard for owner Southwest Maritime Limited. *Gas Taurus* is the first VLGC which is both independently designed and built by Jiangnan Shipyard (Group) Co., Ltd while there are already eight VLGCs (delivered to Avance Gas) built by Jiangnan's sister yard to Jiangnan's design.

During the R&D process, Jiangnan's R&D Team identified and tackled more than 100 key issues, including the WPS of Lower Temperature Steel, the insulation spray, the fabrication of the supports, tank

insulation spray, the fabrication of the supports, tank lifting, and accuracy control. Some 87 patent applications have been submitted.

With respect to the hull form development, computational fluid dynamics technology was used to carry out simulation, analysis and optimisation. Fuel consumption had been proven by sea trials to be 5-10% lower.

A 3D finite element model was built to complete the scantling check and vibration analysis in accordance with rule requirements with a fatigue life in the cargo

area of 30 years.

During the construction, strict safety control measures were carried out and a slop bored stern tube (aft) was adopted to improve the load distribution of the aft

bearing significantly.

This advanced research and design philosophy together with the solid quality control makes *Gas Taurus* a significant very large gas carrier.

TECHNICAL PARTICULARS

Lengin oa:	22011
Length bp:	215m
Breadth moulded:	36.60m
Depth moulded	
To main deck:	22.20m
Draught	
Scantling:	12.10m
	11.40m
	46,789gt
Displacement:	73,415
Lightweight:	19,649.6
0 0	

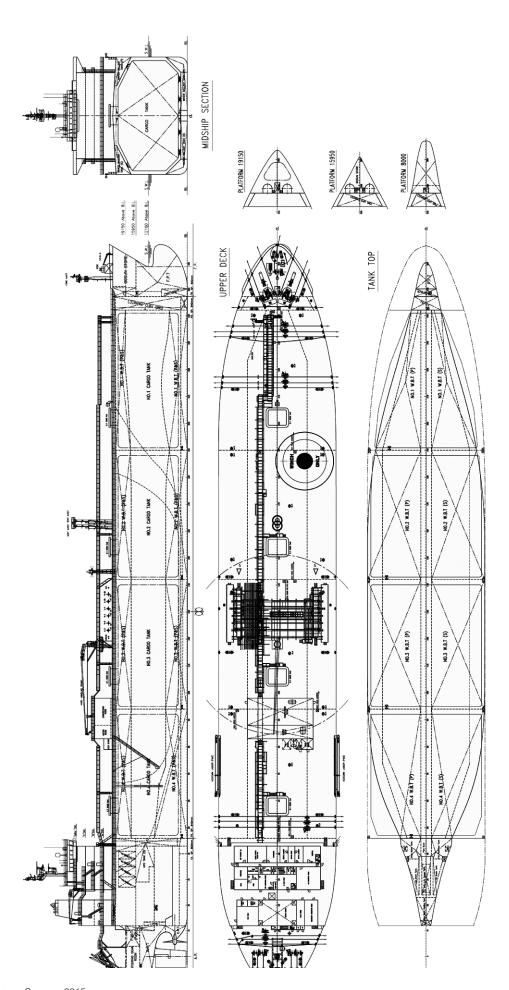
Dandunialat	
Deadweight	40,000 7 4. +
Scaptling:	48,922.7dwt 53,765.4dwt
Block co-efficient:	
Speed, service (%MCR c	utput): 17 25kpote
Speed, Service (761VICH C	90%SMCR)
Cargo capacity (m³)	(90 /631/1011)
Liquid volumo:	83,157m³
Bunkers (m ³)	
Hoava cili	2674m³
Diesel oil:	272m ³
Water ballact (m ³):	20 062m ³
Main ongine only:	about 5/toppos/day
Iviairi erigirie oriiy	about 54tonnes/day at SMCR
Auxiliaries:	about 5.45tonnee/day
Auxiliaries	85% MCR of one engine
Classification society and n	otations:
№100A1 Liquefied Gas Ca	
ture	- 50°C, Maximum Vapour
Pressure 0.25bar, Max. Sp	pecific Gravity (161) Ship
1 1035010 0.25001, Max. 0	and Indopondent Tanks
Type A i	and Independent Tanks LMC, ≰RMC (LG), UMS
FCO(IHM)	NAV1 ShinRight (SDA
EDA niu), NAV1, ShipRight (SDA, s(30, WW), CM, ACS(B)),
*IMS 11	with the descriptive notes
"Shir	oRight (SCM, SERS), ETA
Main engine(s) x 1	51 light (001vi, 0Li 10), Lii/ (
Design:	MAN B&W
Model:	6S60ME-C8.2
Manufacturer:	HHM
Type of fuel:	HHM HFO up to 700cSt at 50°C
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	and LSDO
Output of each engine: .	and LSDO SMCR: 1,2400 11,160kW@88.8rpm
kW@92 rpm, CSR:	11,160kW@88.8rpm
PIODEIIERS) X T	
Material:	Ni-Al-Bronze, Cu ₃
Designer/Manufacturer:	Zhenjiang
Tor	ngzhou Propeller Co., Ltd
Fixed/Controllable pitch:	Fixed pitch
Diameter:	7.08m
Speed:	Same as main engine
Diesel-driven alternators x 3	3
Engine make/type:	CSSC Marine
-	Power Co. Ltd/ 6L21/31 HFO up to 700cSt at
Type of fuel:	HFO up to 700cSt at
	50°C and LSDO et:1,320kW
Output/speed of each se	et:1,320kvv
Alternator make/type:	/ 900 rpm
Alternator make/type:	CMXD / HFC 5 632-84K
Output/speed of each set: .	1 050kW / 000rpm
Boilers x 2	1,250KW / 9001PITI
	Economiser water tube
	time and auxiliani
	hoilor emoko tuho tuno
Make·	boiler smoke tube type Alfa Laval
Output each hoiler	1 100ka/h for FGF
Jaipai, Gaoi i bolici	1,100kg/h for EGE, 2,500kg/h for aux boiler
Cargo cranes/cargo gear x	1
Make:	TTS
Type:	TTSGP735-15-28
Other cranes x 2	
Make: Zhenijana M	arina Auviliary Machinary

Type:HDC2-17, HDC4-1 Tasks:Provision, E/R Parts Embarkatio	
Mooring equipment x 9 Make:Wuhan Marine Machiner	
Type: Electro-hydrauli	y C
Special lifesaving equipment free-fall lifeboat	
Number of each and capacity: . One, 30 Person	
Make:NP Type:NPT67F	
Hatch covers	
Design:Jiangnan Shipyar	
(Group) Co., Ltd Manufacturer: . Shanghai Jiangnan Lupu Industr	Э. Си
Co. Lto	H
Type (upper deck/other decks):CE	3/ 95
Cargo tanks x 4	
Grades of cargo carried:n-Butane, i-Butane	
Mixture of n-Butane and i-Butane	
Commercial propane, Mix of propan	ne
and butane, Propylene, Butylene Butadiene, Dimethyl Ether (DMB	
Coated tanks – make and type	=)
of coating:Jotun-Zhong Yuan (Qingdao) Co	
Ltd. Epoxy typ	е
Stainless steel – structure/piping:Pipin Cargo pumps x 8	g
Number:	8
Type:Electric Motor Driven Deepwell Pum	р
Make: Wärtsilä Svanehøj A/ Stainless steel: Ye	
Capacity (each):	h
Cargo control system	
Make:Kongsber Ballast control system	g
Make:Kongsber	g
Complement	_
Officers:1	
Crew:1 Suez/Repair Crew:1	
Bridge control system	
Make:TERASAl Is bridge fitted for one-man operation?Yes, L	
Class notation 'NAV1' is assigne	
to the project	
Fire detection system Make:	m
Type:Salwico Carg	0
Fire extinguishing systems Cargo holds:	
Cargo noids:	 er
Engine room:	
Make/Type:Wilhelmsen/CC Local water mist system	2
Make/Type:Seaplu	IS
Water firefighting Make/Type: China Nation Shipbuildin	
Equipments & Materials (East China) Co. Ltd	_
Cabins:Portable extinguishe Make/Type:China Nationa	er al
Shipbuildin	a
Equipments & Materials (East China) Co. Ltd Water fire fighting Make/Type:China Nationa	er el
Shipbuilding Equipments & Materials (East China	ગ
	ੜ)
Co. Lt	ď
Public spaces:	:d er
Public spaces:	d er g
Public spaces:	der g
Public spaces:	d er g a ts
Public spaces:	der g a ts d
Public spaces:	der gatstad CD
Public spaces:	der gatstad CD
Public spaces:	der gats:d CDlo
Public spaces:	der gatsd CDlo
Public spaces:	der gatsd CDlo
Public spaces:	der gatsd CDlo sPrt
Public spaces:	derg atsid CDIO ISP It IO
Public spaces:	derg atsid CDIO ISP ITIO C

38 SIGNIFICANT SHIPS OF 2015

Make: Zhenjiang Marine Auxiliary Machinery

GAS TAURUS



SIGNIFICANT SHIPS OF 2015