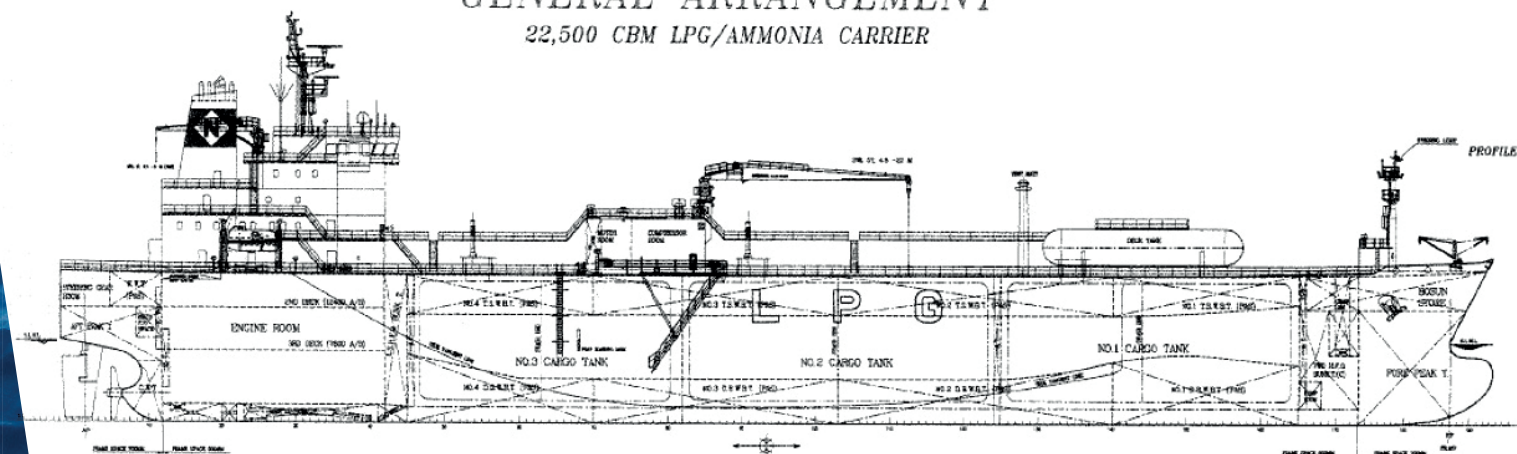


GAZ FRATERNITY

GENERAL CHARACTERISTICS

GENERAL ARRANGEMENT

22,500 CBM LPG/AMMONIA CARRIER



GENERAL CHARACTERISTICS

Owners:	UNIVERSAL SHIPPING AND TRADING CO. S.A.
Built:	Huynhai HEAVY INDUSTRIES. LTD
Flag:	PANAMANIAN
Class:	BV
Call Sign:	3ETS6
GRT/NRT:	
International:	16,777 / 5,033
Suez:	18,007.25 / 14,566.31
Panama:	14,041
IMO:	9448487
USCG:	YES
RINA:	N/A
MOT:	YES
LOA:	154.17 m
LBP:	147.00 m
Breadth Moulded:	25.50 m
Depth Moulded:	16.00 m
DWT, Summer:	17,048 mtons
Draft, Summer:	8,817 m
Draft, Propane:	8.09 m
Main Engine:	Vertical 2-cycle, Cross Head type, Diesel Engine HUYNDAI MAN B&W 6S50MC-C (Mark 7)
Maximum Power:	9,480 kw at 127 rpm
Fuel Grade:	ISO 8217:2005 RMG380
Consumption/day:	38.0 tons
Speed (Average):	16.6 knots
Auxiliaries:	Vertical 4-cycle, Single Acting, Trunk Piston type Diesel Engine, HUYNDAI-HIMSEN 6H21/32
Power:	910 kw x 720 rpm
Total Available:	2,730 kw
Grade/Consumption:	ISO 8217:2005 RMG380 / 3.0 tons/day
Bunker Capacity:	IFO: 1,328.8 m³, MDO: 209.8 m³, GAS OIL: 14.7m³ (98%)

Particulars herein believed to be correct but not guaranteed

Date: 05/12/2016

CARGO PLANT AND HANDLING EQUIPMENT

MARVS:	0.28 bar. G & 0.40 bar. G harbor
Min.Temperature:	-48°C
Max.Specific Gravity:	0.970
Max.Vacuum:	-0.95 bar. A
Cargo Pumps:	Six (6), Electric Motor Driven Deep Well Vertical Centrifugal, Multi-stage design Hamworthy Kse Svanehoj A/S, 350 m³/hr x 120m
Cargo Compressors:	Three (3), Vertical Two Stage Piston, Oil free type, Burckhardt Compression AG, 2K160-2F, 2,024 m³
Cargo Heater:	Horizontal Shell and Tube, 450 cm³/hr from -48°C to 0°C at Sea Water Temperature +15°C
Booster Pumps:	2 set Horizontal Centrifugal Hamworthy Kse Svanehoj A/S NMB 150C, 350 m³/hr x 120m l.c
Deck Tanks:	240 m³ cylindrical
Inert Gas Plant:	Hamworthy Moss, dew point -40°C, 2,000 Nm³/hr
Cargo Vaporizer:	YES
Bow Thruster:	N/A
Cargo Manifolds:	Liquid - Vapour - Vapour - Liquid, Liquid Line 10" ANSI 150lb

INDICATIVE CAPACITIES OF CARGO TANKS

			BUTANE	PROPANE	AMMONIA	BUTADIENE
TANK No.	CBM 100%	S.G.	0.605	0.582	0.644	0.653
		T°C	-0,5	-42	-33,4	-5
1 P&S	6,752		3,970.2	3,851.4	4,506.0	4,320.9
2 P&S	8,703		5,117.4	4,963.8	5,808.0	5,569.4
3 P&S	7,122		4,188.0	4,062.3	4,753.0	4,557.9
TOTAL	22,577		13,275.6 mtns	12,877.1 mtns	15,067 mtns	14,448.2 mtns

GAZ FRATERNITY / NAFTOMAR