

**12,000 M3
LEG/LPG/NH3/VCM
CARRIER (ELETSON)**

GAS FORM-C
based on the
OCIMF / SIGTTO
SHIP INFORMATION QUESTIONNAIRE
for
GAS CARRIERS
2nd Edition 1998

Specifications of the vessel and the gas installations are believed to be correct, but not guaranteed.

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**SECTION A
GENERAL INFORMATION**

A1 PRINCIPAL SHIP PARTICULARS

1.1	Date questionnaire completed	01/06/2018
1.2	Name of vessel	KALOLIMNOS
1.3	LR/IMO number	9796705
1.4	Last previous name	N/A
1.4.1	Date of name change	N/A
1.5	Second last previous name	N/A
1.5.1	Date of name change	N/A
1.6	Third last previous name	N/A
1.6.1	Date of name change	N/A
1.7	Fourth last previous name	N/A
1.7.1	Date of name change	N/A
1.8	Flag	LIBERIA
1.9	Port of Registry	MONROVIA
1.10	Official number	92857
1.11	Call sign	D5QY4
1.12	INMARSAT A or B number	N/A
1.13	Vessel's telephone number	FBB500 : 00870773910787 // V-SAT :0030 2112341464 (Bridge) 0030 2112341465 (Master) 0037254-430862
1.13.1	Vessel's mobile number	N/A
1.14	Vessel's fax number	N/A
1.15	Vessel's telex number	N/A
1.16	Vessel's E-mail address	master@kalolimnos.eletson.com

CLASSIFICATION

1.32 Classification society
 1.33 Class Notation

LR
+100 A1 Liquefied Gas carrier, Ship type 2G, Acetaldehyde, Anhydrous Ammonia, Butadiene, Butane, Butane-Propane mixture, Butylenes, Diethyl Ether, Dimethylamine, Dimethyl Ether, Ethane, Ethyl Chloride, Ethylene, Ethylene Oxide-Propylene Oxide mixtures(Max. E.O. 30% by weight), Isoprene, Isopropylamine, Methyl Chloride, Mixed C4, Monoethylamine, Pentanes(all isomers), Pentene(all isomers), Propane, Propylene, Propylene Oxide, Vinyl Chloride and Vinyl Ethyl Ether in Independent Tank Type C, Maximum Specific Gravity 0.97, Maximum Vapour Pressure 5.0 bar, Minimum Cargo temperature minus 104 C, ShipRight(ACS(B), CM, FDA, SDA), *IWS, LI ECO(BWT, EEDI-1, IHM, P) +LMC, IGS, UMS, NAVI +Lloyd's RMC(LG) Description Notes: ShipRight(BWMP(S,T), SCM, SERS)
N/A
N/A

1.34 If Classification society changed, name of previous society
 1.35 If Classification society changed, date of change
 1.36 Was ship built in accordance with the following regulations:

IMO
 US COAST GUARD
 SIGTTO - EXXONMOBIL
 Other: Maritime Authority of Japan

Approval Received	
YES/NO	YES/NO
YES/NO	YES/NO
YES/NO	YES/NO
YES/NO	YES/NO

1.37 IMO certification

Certificate of fitness - IGC
 Certificate - A328
 Certificate - A329
 Letter of Compliance
 Issued by

YES/NO
YES/NO
YES/NO
YES/NO
LR
YES/NO

1.38 Unattended Machinery Space Certificate

1.39 Net Registered Tonnage
 1.40 Gross Registered Tonnage
 1.41 Suez Net Tonnage - Canal Tonnage
 Suez Gross Tonnage
 1.42 Panama Net Tonnage - Canal Tonnage
 Panama Gross Tonnage

4138
13794
N/A
11616

A2 HULL DIMENSIONS

2.1 Length overall (LOA)
 2.2 Length between perpendiculars (LBP)
 2.3 Distance bow to bridge
 2.4 Distance bridge front - mid point manifold
 2.5 Distance bow to mid-point manifold
 2.6 Extreme breadth
 2.7 Extreme depth
 2.8 Summer draught
 2.9 Corresponding Summer deadweight
 2.10 Light displacement
 2.11 Loaded displacement (Summer deadweight)
 2.12 Cargo tanks cubic capacity - 100%
 2.12.1 Deck tank(s) cubic capacity - 100%
 2.12.2 Cargo tanks cubic capacity - 98%
 2.12.3 Deck tank(s) cubic capacity - 98%
 2.13 Distance from keel to highest point
 2.14 Air draught (normal ballast condition)

147.06	Metres
139	Metres
117.62	Metres
48	Metres
69.62	Metres
22.6	Metres
12.6	Metres
9.214	Metres
15068	Tonnes
6793	Tonnes
21861	Tonnes
12154.8	Cubic metres
122.929	Cubic metres
11911.7	Cubic metres
120.47	Cubic metres
45.14	Metres
39.63	Metres

A3 IMMERSION

3.1 TPC - in normal ballast condition
 TPC - in loaded condition (summer deadweight)

24.92	5.57
29.63	9.214

A4 LOADED PARTICULARS

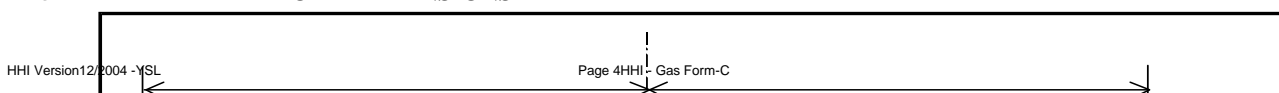
	Butane	Propane	
4.1 Cargo grade	0.6	0.58	
4.2 Density			
4.3 Cargo loadable	7147	6909	Tonnes
4.4 Bunkers - FO	1006	1006	Tonnes
4.5 Bunkers - DO	282	282	Tonnes
4.6 Fresh water	266	266	Tonnes
4.7 Stores & spares	34	34	Tonnes
4.8 Lub oil	54	54	Tonnes
4.9 Ballast	1157	1157	Tonnes
4.10 Deadweight	9946	9708	Tonnes
4.11 Draught - forward	6.48	6.34	Metres
Draught - aft	8.39	8.36	Metres
Draught - mean	7.44	7.35	Metres

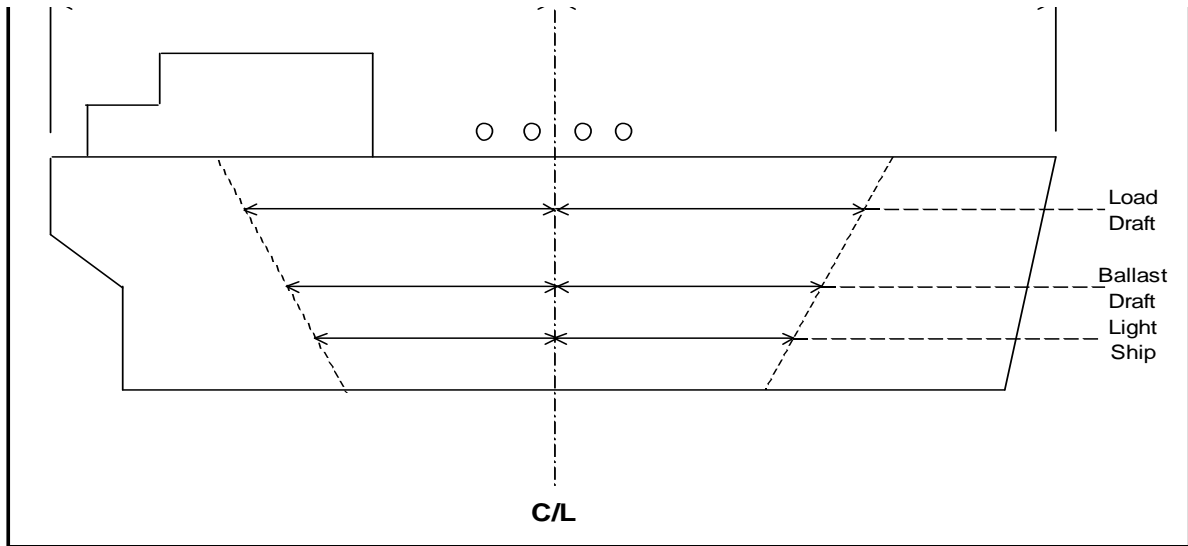
	Butadiene	Propylene	
Cargo grade	0.65	0.6	
Density			
Cargo loadable	7742	7147	Tonnes
Bunkers - FO	1006	1006	Tonnes
Bunkers - DO	282	282	Tonnes
Fresh water	266	266	Tonnes
Stores & spares	34	34	Tonnes
Lub oil	54	54	Tonnes
Ballast	1157	1157	Tonnes
Deadweight	10541	9946	Tonnes
Draught - forward	6.84	6.48	Metres
Draught - aft	8.48	8.39	Metres
Draught - mean	7.66	7.44	Metres

	Ethylene	Ammonia	
Cargo grade	0.57	0.68	
Density			
Cargo loadable	6789	8100	Tonnes
Bunkers - FO	1006	1006	Tonnes
Bunkers - DO	282	282	Tonnes
Fresh water	266	266	Tonnes
Stores & spares	34	34	Tonnes
Lub oil	54	54	Tonnes
Ballast	1157	1157	Tonnes
Deadweight	9588	10899	Tonnes
Draught - forward	6.27	7.06	Metres
Draught - aft	8.34	8.53	Metres
Draught - mean	7.31	7.79	Metres

	VCM	Propylene Oxide	
Cargo grade	0.97	0.82	
Density			
Cargo loadable	11554	7380	Tonnes
Bunkers - FO	1006	1006	Tonnes
Bunkers - DO	282	282	Tonnes
Fresh water	266	266	Tonnes
Stores & spares	34	34	Tonnes
Lub oil	54	54	Tonnes
Ballast	1599	1157	Tonnes
Deadweight	14795	10179	Tonnes
Draught - forward	9.18	6.49	Metres
Draught - aft	9.24	8.48	Metres
Draught - mean	9.21	7.52	Metres

A5 PARALLEL MID-BODY DIMENSIONS





5.1	Light ship	29.28	Metres
5.2	Forward to mid-point manifold - light ship	10.01	Metres
5.3	Aft to mid-point manifold - light ship	19.27	Metres
5.4	Normal ballast	52.43	Metres
5.5	Forward to mid-point manifold - normal ballast	25.76	Metres
5.6	Aft to mid-point manifold - normal ballast	26.67	Metres
5.7	Loaded SDWT	74.19	Metres
5.8	Forward to mid-point manifold - loaded SDWT	38.50	Metres
5.9	Aft to mid-point manifold - loaded SDWT	35.69	Metres

A6 BUNKER CAPACITIES

Main engine, Auxiliary engine(s)

Grade	Capacity M ³ @ 100%
No 1 P	102.3
No 2 P	272.7
No 3 P	102.3
No 1 S	102.3
No 2 S	272.7
No 3 S	102.3
No 1 Settling	18.1
No 1 Service	18.1
No 2 Settling	29.2
No 2 Service	17.6
MDO	319.8

Other: Storage (P + S)//Service Tanks

A7 FUEL CONSUMPTION DETAILS PLEASE SEE CHARTER PARTY

Note: based on shop test ISO ambient condition, HFO of 9,700 Kcal/kg

	Grade	
7.1	At sea - normal service speed (About 15.0 Knots)	
	Fuel oil	Tonnes/day
	Diesel oil	Tonnes/day
	Gas oil	Tonnes/day
7.2	At sea - normal service speed - while conditioning cargo (cooling down of cargo - 3 Cargo Compressors)	
	Fuel oil	Tonnes/day
	Diesel oil	Tonnes/day
	Gas oil	Tonnes/day
7.3	In port - loading based on three (3) diesel generator 24 hours running	
	Fuel oil	Tonnes/day
	Diesel oil	Tonnes/day
	Gas oil	Tonnes/day
7.4	In port - discharging based on three (3) diesel generator 24 hours running	
	Fuel oil	Tonnes/day
	Diesel oil	Tonnes/day
	Gas oil	Tonnes/day
7.5	In port - idle	
	Fuel oil	Tonnes/day
	Diesel oil	Tonnes/day
	Gas oil	Tonnes/day

Copies of the vessel's Speed and Consumption Graph for both Laden and Ballast conditions are enclosed?

NO

A8 MAIN ENGINE PARTICULARS

8.1	Main engine make and type	Hyundai-MAN B&W	
		6S46ME-B8.3	
8.2	Number of units	One(1)	
8.3	Maximum continuous rating (MRC) per engine	kW @ RPM	
		6,430 kW	125 RPM
8.4	Total available power	8,623 HP	
8.5	Normal service power	6,895 HP	

A9 AUXILIARY PLANTS

9.1	Make and type of auxiliary generators / engines	Hyundai HiMSEN	
		6H21/32	
9.2	Number of units	Three(3)	
9.3	Maximum generator output per unit	RPM	Kilowatts
	Unit no. 1	900	1,272
	Unit no. 2	900	1,272
	Unit no. 3	900	1,272
	Unit no. 4		
9.4	Shaft generator	N/A	
9.5	Total available power	3816	
9.6	Emergency generator	1800	120
9.7	Emergency fire pump - type	Vertical Centrifugal	
	Delivery pressure	10(total head) Bar	
	Motive power	Electrical	
	If electrical, - indicate power required	55 Kilowatts	
9.8	Steering gear - type	Rotary vane	
	Indicate power required to steer the vessel with one pump unit	22 Kilowatts	

A10 POWER/SPEED INFORMATION

10.1	Trial data	BHP	6039	
		MRC	128.9	SHP
		Speed	18.32	Knots
		Draught	5.14	Metres
10.2	Normal service speed	BHP	5144	
		MRC	116	SHP
		Speed	16	Knots
		Draught	7.3	Metres

A11 THRUSTERS

11.1	Make and type	HHI-HSC-1550S / Controllable Pitch	
11.2	Bow thruster	(output)	750 Kilowatts
11.3	Stern thruster	(output)	NA Kilowatts

A12 FRESH WATER

12.1	Capacity of distilled tanks	0 Tonnes	
12.2	Capacity of domestic tanks	266.6 Tonnes	
12.3	Daily consumption	Distilled	5 Tonnes
		Domestic	9 Tonnes
12.4	Daily evaporator capacity	20 Tonnes	

A13 BALLAST CAPACITIES AND PUMPS

	Tank	Capacity (m3)	Number
13.1	Fore peak	307.7	1
13.2	Wing and or side tanks	753	2
13.3	Double bottom tanks	3909.4	17
13.4	Aft peak	212.7	1
13.5	Other:		
13.6	Total	5182.8	21

- 13.7 Ballast pump make and type
- 13.8 Number of pumps
- 13.9 Total capacity
- 13.10 Location
- 13.11 Control location

SHIN SHIN / C200 VIC MDVC - CENTRIFUGAL ELECTRIC DRIVEN	
	2
	300
E/room (Floor)	
PUMP SIDE / CCR / ECR	

M3/hour

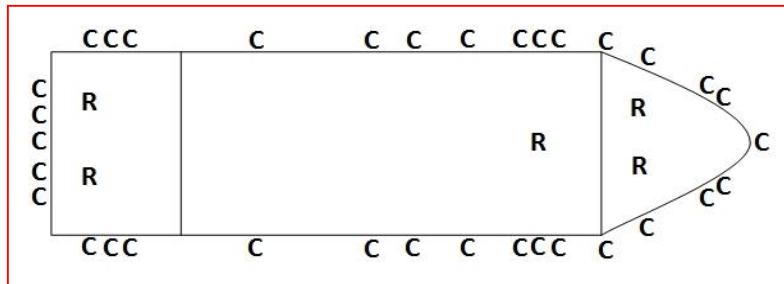
A14 MOORING EQUIPMENT

14.1 ROPES

Indicate on the diagram below the position of:

- Winch Mounted Ropes (R)
- Open Fairleads (O)
- Closed Fairleads (C) _ APPLICATION OF CLOSED CHOCK

Alternatively enclosed copy of vessel's Mooring arrangements in A4 format.



MOORING ROPES (ON DRUMS)

Mooring Ropes (On Drums) Forecastle - Number

Diameter

Material

Length

Breaking Strength

	4	
	38	mm.
	New Superflex Euro	
	190	Metres
	39	Tonnes

Mooring Ropes (On Drums) Forward Main Deck - Number

Diameter

Material

Length

Breaking Strength

	2	
	38	mm.
	New Superflex Euro	
	190	Metres
	39	Tonnes

Mooring Ropes (On Drums) Aft Main Deck - Number

Diameter

Material

Length

Breaking Strength

		mm.
		Metres
		Tonnes

Mooring Ropes (On Drums) Poop - Number

Diameter

Material

Length

Breaking Strength

	4	
	38	mm.
	New Superflex Euro	
	190	Metres
	39	Tonnes

OTHER MOORING LINES

Mooring Ropes not on Drums - Number

Diameter

Material

Length

Breaking Strength

	8	
	38	mm.
	50% POLYESTER - 50 % POLYSTEEL	
	220	Metres
	38.5	Tonnes

Emergency Towing Wires / Fire Wires - Number

Diameter

Material

Length

Breaking Strength

	2	
	28	mm.
	FIRE WIRES : GALVANIZED STEEL	
	45	Metres
	3,425.0 N	Tonnes

14.2

MOORING WINCHES

Forecastle - Number

Single Drum or Double Drums

Split Drums Y/N

2
Double
YES

Motive Power	El-Hydraulic	
Heaving Power	12.5	Tonnes
Brake Capacity	38.5	Tonnes
Hauling Speed	15	Metres/Min.
Forward Main Deck - Number	1	
Single Drum or Double Drums	Double	
Split Drums Y/N	YES	
Motive Power	El-Hydraulic	
Heaving Power	12.5	Tonnes
Brake Capacity	38.5	Tonnes
Hauling Speed	15	Metres/Min.
Aft Main Deck - Number	N/A	
Single Drum or Double Drums		
Split Drums Y/N		
Motive Power		
Heaving Power		Tonnes
Brake Capacity		Tonnes
Hauling Speed		Metres/Min.
Poop - Number	2	
Single Drum or Double Drums	Double	
Split Drums Y/N	YES	
Motive Power	El-Hydraulic	
Heaving Power	12.5	Tonnes
Brake Capacity	38.5	Tonnes
Hauling Speed	15	Metres/Min.

14.3 **ANCHORS AND WINDLASS**

Windlass motive power(e.g. steam, hydraulic)	Electro-Hydraulic	
Hauling power	16.3	Tonnes
Brake holding power	119.2	Tonnes
Anchor type	Stockless, High Holding Power, AC-14	
Weight	4.33	Tonnes
Is spare anchor carried	NO	
Cable diameter	58	mm.
Number of shackles port cable	11	
Number of shackles starboard cable	10	

14.4 **TOWING ARRANGEMENTS**

Is the vessel fitted with a Towing Bracket Aft?	N/A	
If Yes, state SWL		Tonnes
Is Towing chain provided	N/A	
Dimensions of Towing wire		mm.
Diameter		
Length		Metres

14.5 **WINDAGE**

Windage on ballast draught	End-on	530	Squaremetres
	Lateral	1936	Squaremetres

A15 NAVIGATIONAL EQUIPMENT

15.1	Magnetic compass		YES/NO
15.2	Off Course Alarm - Magnetic compass		YES/NO
15.3	Gyro compass		YES/NO
		Number of Units	2
15.4	Off Course Alarm - Gyro compass		YES/NO
15.5	Gyro (Bridge) Repeaters		YES/NO
		Number of Units	5
15.6	Radar 3cm		YES/NO
15.7	Radar 10cm		YES/NO
15.8	Are radars gyro stabilised?		YES/NO
15.9	Radar plotting equipment		YES/NO
15.10	ARPA		YES/NO
15.11	ECDIS		YES/NO
15.12	Depth sounder with recorder		YES/NO

15.13	Depth sounder without recorder		YES/NO
15.14	Speed/distance indicator		YES/NO
15.15	Doppler log		YES/NO
15.16	Docking approach Doppler		YES/NO
15.17	Rudder angle indicator		YES/NO
15.18	Rudder angle indicator on Each Bridge Wing		YES/NO
15.19	RPM indicator		YES/NO
15.20	RPM indicator on Each Bridge Wing		YES/NO
15.21	Controllable pitch propeller indicator		YES/NO/NA
15.22	Thruster(s) indicator		YES/NO
15.23	Rate of turn indicator		YES/NO
15.24	Radio direction finder		YES/NO
15.25	Navtex receiver		YES/NO
15.26	GPS		YES/NO
15.26.1	DGPS		YES/NO
15.27	Transit SATNAV		YES/NO
15.28	Decca navigator		YES/NO
15.29	Omega		YES/NO
15.30	Loran C		YES/NO
15.31	Weather fax		YES/NO
15.32	Sextant(s)		YES
15.33	Signal lamp ALDIS		YES/NO
15.34	Anemometer		YES/NO
15.35	Engine order recorder		YES/NO
15.35.1	VDR (Voyage Data Recorder)		YES/NO
15.36	Course recorder		YES/NO
15.37	Are steering motor controls and engine controls fitted on bridge wings?	No steering motor control on wings	YES/NO
15.38	Is bridge equipped with a 'Dead-Man' alarm?		YES/NO/NA
15.39	What chart outfit coverage is provided	World-wide Limited	YES/NO YES/NO
		If limited, - please indicate area(s) covered	N/A
15.40	Formal chart correction system in use		YES/NO
15.41	Electronic Chart system in use		YES/NO

A16 COMMUNICATIONS AND ELECTRONICS

16.2	What GMDSS areas is the vessel classed for? A1 A2 A3 A4		A1+A2+A3
16.3	Transponder (SART)		YES/NO
16.4	EPIRB		YES/NO
16.5	How many VHF radios are fitted on the bridge?		2
16.6	Is vessel fitted with VHF in the cargo control room (CCR)?		YES/NO
16.7	Is the CCR connected to the vessel's internal communication system?		YES/NO
16.8	How many intrinsically safe walkie talkies are provided for cargo handling?		11
16.9	Is vessel fitted with an INMARSAT satellite communications system?		YES/NO
16.10	Does vessel carry at least three survival craft two-way radio telephones?		YES/NO
16.11	Inmarsat satellite system	Specify system type A, B or C	YES/NO C / FBB 500
16.12	2182kHz bridge auto alarm		YES/NO
16.13	Radio telephone distress frequency watch receiver		YES/NO
16.14	Emergency lifeboat transceiver		YES/NO
16.15	Can vessel transmit the helicopter homing signal on 410 kHz?		YES/NO
16.16	Full set of Radio List publications		YES/NO

**SECTION B
CARGO SYSTEMS**

1.1 List products which the ship is Certified to carry

Acetaldehyde, Ammonia anhydrous, Butadiene, Butane, Butane-Propane mixtures, Butylene,
Diethyl Ether, Dimethylamine, Dimethyl Ether, Ethane, Ethyl Chloride, Ethylene,
Ethylene Oxide - Propylene Oxide mixtures w/ethylene oxide content of not than 30% by weight,
Isopropylamine, Methyl Chloride, Mixed C4, Monoethylamine, Pentanes (all isomers),
Pentene (all isomers), Propane, Propylene, Vinyl Chloride, Vinyl Ethyl Ether.

Transport and Carriage Conditions

1.2	Minimum allowable tank temperature	-104	Deg. Celsius
1.3	Maximum Permissible tank pressure	5	Bar g
1.4	List Number of grades that can be loaded/discharged simultaneously and completely segregated without risk of contamination?	2	
1.5	List the Number of grades that can be carried simultaneously and completely segregated without risk of contamination?	2	
1.6	What is the Number of Products that can be conditioned by reliquefaction simultaneously?	2	
1.7	State the number of natural segregation's (NB: Separation must be by the removal of spools or the insertion of blanks)	2	

B2 CARGO TANKS

2.1	Type and materials of cargo tanks	Cylindrical Cargo Tank Type C	Fine austenitic grain, Fully killed, Nickel alloy steels with specified low temperature properties.
2.2	Maximum allowable relief valve setting	5	Bar gauge
2.2.1	IMO Setting	5	Bar gauge
2.2.2	USCG Setting	5	Bar gauge
2.3	Safety valve set pressure, - if variable stipulate range of pilot valves	5	Bar gauge
2.4	Maximum allowable vacuum	0.75	Bar abs
2.5	Maximum cargo density at 15 deg Celsius	972	kg/m ³
2.6	Maximum rate of cool-down	10	Deg Cel / Hour
2.7	State any limitations regarding partially filled tanks	no	

Diethylether, Etylene Oxide/Propylene Oxide, Isopropylamine, Monoethylamine, Vinylethylether max. 3000 m³ per cargo tank

2.8	State allowable combinations of filled and empty tanks
	No.1 (2+3 empty); No.2(1+3 empty); No.3 (1+2 empty); Nos. 1+2 (No. 3 empty);
	Nos. 1+3 (No. 2 empty); Nos. 2+3 (No 1 empty)
	There are no limitations for partial filling ratio

B3 CARGO TANK CAPACITIES

Tank number / location

- Capacity m3 (100%)
- Capacity 98%
- Butane capacity
- Butane temperature
- Propane capacity
- Propane temperature

Tank 1/ Fore		
Capacity m3 (100%)	4051	m3
Capacity 98%	3970	m3
Butane capacity	2382	Tonnes
Butane temperature	0	Deg. C
Propane capacity	2303	Tonnes
Propane temperature	-42	Deg. C

Butadiene capacity	2581	Tonnes
Butadiene temperature	-4	Deg. C
Propylene capacity	2382	Tonnes
Propylene temperature	-48	Deg. C
Vinyl Chloride Monomer capacity	3851	Tonnes
Vinyl Chloride Monomer temperature	-14	Deg. C
Ethylene capacity	2263	Tonnes
Ethylene temperature	-103.4	Deg. C
Propylene Oxide capacity	2460	Tonnes
Propylene Oxide temperature	24	Deg. C
Ammonia capacity	2700	Tonnes
Ammonia temperature	-33.5	Deg. C

Tank number / location

Tank 2/ Mid.		
Capacity m3 (100%)	4052	m3
Capacity 98%	3971	m3
Butane capacity	2383	Tonnes
Butane temperature	0	Deg. C
Propane capacity	2303	Tonnes
Propane temperature	-42	Deg. C
Butadiene capacity	2581	Tonnes
Butadiene temperature	-4	Deg. C
Propylene capacity	2383	Tonnes
Propylene temperature	-48	Deg. C
Vinyl Chloride Monomer capacity	3852	Tonnes
Vinyl Chloride Monomer temperature	-14	Deg. C
Ethylene capacity	2264	Tonnes
Ethylene temperature	-103.4	Deg. C
Propylene Oxide capacity	2460	Tonnes
Propylene Oxide temperature	24	Deg. C
Ammonia capacity	2700	Tonnes
Ammonia temperature	-33.5	Deg. C

Tank number / location

Tank 3/ Aft		
Capacity m3 (100%)	4051	m3
Capacity 98%	3970	m3
Butane capacity	2382	Tonnes
Butane temperature	0	Deg. C
Propane capacity	2303	Tonnes
Propane temperature	-42	Deg. C
Butadiene capacity	2581	Tonnes
Butadiene temperature	-4	Deg. C
Propylene capacity	2382	Tonnes
Propylene temperature	-48	Deg. C
Vinyl Chloride Monomer capacity	3851	Tonnes
Vinyl Chloride Monomer temperature	-14	Deg. C
Ethylene capacity	2263	Tonnes
Ethylene temperature	-103.4	Deg. C
Propylene Oxide capacity	2460	Tonnes
Propylene Oxide temperature	24	Deg. C
Ammonia capacity	2700	Tonnes
Ammonia temperature	-33.5	Deg. C

Total Capacity of all cargo tanks (100%)	12155	m3
Total Capacity of all cargo tanks (98%)	11912	m3
Total Capacity of Butane	7147	Tonnes
Total Capacity of Propane	6909	Tonnes
Total Capacity of Butadiene	7743	Tonnes
Total Capacity of Propylene	7147	Tonnes
Total Capacity of Vinyl Chloride Monomer	11555	Tonnes
Total Capacity of Ethylene	6790	Tonnes
Total Capacity of Propylene Oxide	7380	Tonnes
Total Capacity of Ammonia	8100	Tonnes

Are Deck pressure tank(s) fitted?
 Material of tank(s)
 Maximum allowable relief valve setting

YES
X12 Ni5
18

Bar gauge

Deck tank number 1 - capacity (100%)
 Capacity 98%
 Propane Capacity, sat @ +45°C
 Butane Capacity, sat @ +45°C
 Propylene capacity, sat @ +45°C
 Ethylene capacity, sat @ -31°C
 Ammonia Capacity, sat @ +45°C

122.9	m3
120.5	m3
54	Tonnes
64	Tonnes
55	Tonnes
52	Tonnes
67	Tonnes

B4 LOADING RATES

4.1 From Refrigerated Storage (Fully Refrigerated at Vessel's Manifold)

Butane - with vapour return
 Butane - without vapour return
 Propane - with vapour return
 Propane - without vapour return
 Butadiene - with vapour return
 Butadiene - without vapour return
 Propylene - with vapour return
 Propylene - without vapour return
 Ethylene - with vapour return
 Ethylene - without vapour return
 Ammonia - with vapour return
 Ammonia - without vapour return
 Vinyl Chloride Monomer - with vapour return
 Vinyl Chloride Monomer - without vapour return
 Propylene Oxide - with vapour return
 Propylene Oxide - without vapour return

1200	m³/Hr.
720	Tonnes/Hr.
1200	m³/Hr.
696	Tonnes/Hr.
780	Tonnes/Hr.
780	Tonnes/Hr.
1200	m³/Hr.
730	Tonnes/Hr.
1200	m³/Hr.
680	Tonnes/Hr.
1200	m³/Hr.
816	Tonnes/Hr.
1164	Tonnes/Hr.
1164	Tonnes/Hr.
1200	m³/Hr.
987	Tonnes/Hr.

4.8 From Pressure Storage

Butane 0 deg C - with vapour return
 0 deg C - without vapour return
 10 deg C - with vapour return
 10 deg C - without vapour return
 20 deg C - with vapour return
 20 deg C - without vapour return

720	Tonnes/Hr.
720	Tonnes/Hr.
720	Tonnes/Hr.
720	Tonnes/Hr.
720	Tonnes/Hr.
720	Tonnes/Hr.

Propane minus 30 deg C - with vapour return
 Minus 30 deg C - without vapour return
 Minus 20 deg C - with vapour return
 Minus 20 deg C - without vapour return
 Minus 10 deg C - with vapour return
 Minus 10 deg C - without vapour return
 0 deg C - with vapour return
 0 deg C - without vapour return
 10 deg C - with vapour return
 10 deg C - without vapour return
 20 deg C - with vapour return
 20 deg C - without vapour return

696	Tonnes/Hr.
696	Tonnes/Hr.
696	Tonnes/Hr.
696	Tonnes/Hr.
696	Tonnes/Hr.
696	Tonnes/Hr.
696	Tonnes/Hr.
696	Tonnes/Hr.
696	Tonnes/Hr.
696	Tonnes/Hr.
500	Tonnes/Hr.
400	Tonnes/Hr.
200	Tonnes/Hr.

Butadiene 0 deg C - with vapour return
 0 deg C - without vapour return
 10 deg C - with vapour return
 10 deg C - without vapour return
 20 deg C - with vapour return
 20 deg C - without vapour return

780	Tonnes/Hr.
780	Tonnes/Hr.
780	Tonnes/Hr.
700	Tonnes/Hr.
780	Tonnes/Hr.
500	Tonnes/Hr.

Propylene minus 30 deg C - with vapour return
 Minus 30 deg C - without vapour return
 Minus 20 deg C - with vapour return
 Minus 20 deg C - without vapour return
 Minus 10 deg C - with vapour return

1200	m³/hr.
1200	m³/hr.
1200	m³/hr.
1200	m³/hr.
1200	m³/hr.

Minus 10 deg C - without vapour return	350	m ³ /hr.
0 deg C - with vapour return	1200	m ³ /hr.
0 deg C - without vapour return	200	m ³ /hr.
10 deg C - with vapour return	1200	m ³ /hr.
10 deg C - without vapour return	150	m ³ /hr.
20 deg C - with vapour return	1200	m ³ /hr.
20 deg C - without vapour return	100	m ³ /hr.
Ethylene minus 100 deg C - with vapour return		
Minus 100 deg C - without vapour return	1200	m ³ /hr.
Minus 95 deg C - with vapour return	1200	m ³ /hr.
Minus 95 deg C - without vapour return	500	m ³ /hr.
Minus 90 deg C - with vapour return	800	m ³ /hr.
Minus 90 deg C - without vapour return	300	m ³ /hr.
Minus 85 deg C - with vapour return	200	m ³ /hr.
Minus 85 deg C - without vapour return	100	m ³ /hr.
Ammonia minus 20 deg C - with vapour return		
Minus 20 deg C - without vapour return	1200	m ³ /hr.
Minus 10 deg C - with vapour return	N/A	m ³ /hr.
Minus 10 deg C - without vapour return	N/A	m ³ /hr.
0 deg C - with vapour return	N/A	m ³ /hr.
0 deg C - without vapour return	N/A	m ³ /hr.
VCM minus 10 deg C - with vapour return		
Minus 10 deg C - without vapour return	1200	m ³ /hr.
0 deg C - with vapour return	1200	m ³ /hr.
0 deg C - without vapour return	1200	m ³ /hr.
10 deg C - with vapour return	1200	m ³ /hr.
10 deg C - without vapour return	100	m ³ /hr.
20 deg C - with vapour return	1200	m ³ /hr.
20 deg C - without vapour return	750	m ³ /hr.

4.14

Special remarks:

1) Above figures are basis all tanks pre-cooled close to product's boiling point.
2) Butane refers to n-Butane
3) Propane refers to n-Propane, not the commercial grade of the product.
4) AMMONIA SHOULD NOT BE LOADED HOTTER THAN -20 C

B5 DISCHARGING - GENERAL**Cargo Pumps**

5.1	Type of Pumps	Deepwell, vertical, centrifugal, multistage
5.2	Number of pumps per tank	1
5.3	Rate per Pump	400 m ³ /hr
5.4	At Delivery Head m/c	120
5.5	Maximum density	972 Kg/m ³

Booster Pump

5.6	Type of Booster Pumps	Horizontal, centrifugal, single stage
5.7	Number of pumps	2
5.8	Rate per Pump	400 m ³ /hr
5.9	At Delivery Head m/c	120
5.10	Maximum density	680 Kg/m ³

Copies of pumping curves for cargo and booster pumps are enclosed?

NO

B6 DISCHARGE PERFORMANCE

Full Cargo Discharge Times (using all cargo pumps)

Manifold Back Press 1 bar g, with vapour return	12	Hours
Manifold Back Press 1 bar g, without vapour return	12	Hours
Manifold Back Press 5 bar g, with vapour return	14	Hours
Manifold Back Press 5 bar g, without vapour return	14	Hours
Manifold Back Press 10 bar g, with vapour return	42	Hours
Manifold Back Press 10 bar g, without vapour return	42	Hours

Pressurised

Manifold Back Press 1 bar g, with vapour return	12	Hours
Manifold Back Press 1 bar g, without vapour return	12	Hours
Manifold Back Press 5 bar g, with vapour return	14	Hours
Manifold Back Press 5 bar g, without vapour return	14	Hours
Manifold Back Press 10 bar g, with vapour return	42	Hours
Manifold Back Press 10 bar g, without vapour return	42	Hours

B7 UNPUMPABLES

7.1	Tank number / location	Tank 1/ fore	0.2	m3
	Tank number / location	Tank 2/ mid	0.2	m3
	Tank number / location	Tank 3/ aft	0.2	m3
	Tank number / location			m3
	Tank number / location			m3
	Tank number / location			m3
	Tank number / location			m3
	Tank number / location			m3
	Tank number / location			m3
	Total		0.6	m3

B8 VAPORISING UNPUMPABLES

8.1	Process used	Hot gassing		
	Time to vaporise liquid unpumpables remaining after full cargo discharge of:			
8.2	Butane	12		Hours
8.3	Propane	9		Hours
8.4	Butadiene	12		Hours
8.5	Propylene	9		Hours
8.6	Ethylene	9		Hours
8.7	Ammonia	9		Hours
8.8	Vinyl Chloride Monomer	12		Hours
8.9	Propylene Oxide	N/A		Hours

B9 RELIQUEFACTION PLANT

9.1	Plant Design Conditions - air temperature	45	Deg. C
9.3	Plant Design Conditions - sea temperature	32	Deg. C

Plant Type

9.4	Is the plant single stage/direct?	YES	
9.5	Is the plant two stage/direct?	YES	
9.6	Is the plant simple cascade?	YES	
9.7	Coolant type	Seawater and propylene	

Compressors

9.8	Compressor type	Two cylinder double acting, oil free, reciprocating		
		Burckhardt- Compression		
9.8.1	Compressor makers name			
9.9	Number of compressors	3		
9.10	Capacity per unit	1200		m3/hr
9.11	Are they Oil Free?	YES		

B11 CARGO TEMPERATURE LOWERING CAPABILITY (AT SEA WITH SEA TEMPERATURE +15C)

Time taken to lower the temperature of:

11.1	Propane from -5 deg C to - 42 deg C	186	Hours
11.2	Propane from -20 deg C to - 42 deg C	144	Hours
11.3	Propane from -38 deg C to - 42deg C	36	Hours

11.4	Propane from +20 deg C to 0 deg C	50	Hours
11.5	Propane from 0 deg C to -20 deg C	62	Hours
11.6	Butane from +20 deg C to 0 deg C	100	Hours
11.7	Butane from +10 deg C to 0 deg C	55	Hours
11.8	Butane from +10 deg C to -5 deg C	80	Hours
11.9	Butadiene From +20 deg C to -5 deg C	100	Hours
11.10	Propylene From -20 deg C to -47 deg C	144	Hours
11.11	Ethylene From -100 deg C to -104 deg C	70	Hours
11.12	Ammonia From -20 deg C to -33 deg C	168	Hours
11.13	Vinyl Chloride Monomer From -5 deg C to -14 deg C	50	Hours

B12 INERT GAS AND NITROGEN

Main IG Plant		PSA - Nitrogen Plant	
12.1	Type of system	N2 - 99,5%	1000
12.2	Capacity	Nm3/hr	
12.3	Type of fuel used	N/A	
12.4	Composition of IG - oxygen	N/A	%
	Composition of IG - CO2	N/A	%
	Composition of IG - Nox	N/A	%
	Composition of IG - N2	N/A	%
12.5	Lowest dewpoint achievable	-50	Deg. C
12.6	Used for	N2 purging/Inerting	
Auxiliary IG or Nitrogen plant		PSA - Nitrogen Plant	
12.7	Type of System	N2 - 99,5%	1000
12.8	Capacity	m3/hr	
12.9	Composition of IG - oxygen	N/A	
	Composition of IG - CO2	N/A	%
	Composition of IG - Nox	N/A	%
	Composition of IG - N2	N/A	%
12.10	Lowest dewpoint achievable	N/A	Deg. C
12.11	Used for	-50	
		N2 purging/Inerting	
Nitrogen		N/A	m3
12.12	Liquid storage capacity	N/A	m3
12.13	Daily boil-off loss	N/A	Bar g
12.14	Maximum supply pressure	N/A	m3/hr
12.15	Supply capacity	N/A	
12.16	Used for	N/A	

B13 CARGO TANK INERTING/DE-INERTING

13.1	Time taken to inert from fresh air to under 5% O2 at minus 25 degree C?	24	Hours
13.2	Time taken to inert from cargo vapour to fully inert at minus 25 degrees dewpoint when IG density is less than product?	24	Hours
	Time taken to inert from cargo vapour to fully inert at minus 25 degrees dewpoint when IG density is greater than product?	30	Hours

B14 GAS FREEING TO FRESH AIR

- 14.1 Plant used
- 14.2 Time taken from fully inert condition to fully breathable fresh air?

PSA Plant in Dry Air Mode	
	12

Hours

B15 CHANGING CARGO GRADES

Indicate number of hours needed to change grades from the removal of pumpables to tanks fit to load and the estimated quantity of Inert Gas and or Nitrogen consumed during the operation:

	Hours	Inert Gas (Nm ³ /hr)	Nitrogen (Nm ³)
From Propane to Butane	10		0
From Propane to Butadiene	56		24,000
From Propane to Ethylene	64		30000
From Propane to Ammonia (*)	50		24,000
From Propane to Vinyl Chloride Monomer (*)	78		30,000
From Propane to Propylene Oxide	114		54000
From Butane to Propane	12		0
From Butane to Butadiene	50		24,000
From Butane to Ethylene	96		54000
From Butane to Ammonia (*)	50		24,000
From Butane to Vinyl Chloride Monomer	108		54,000
From Butane to Propylene Oxide	108		54000
From Butadiene to Propane	12		0
From Butadiene to Butane	12		0
From Butadiene to Ethylene	122		54000
From Butadiene to Ammonia	76		24,000
From Butadiene to Vinyl Chloride Monomer	136		54,000
From Butadiene to Propylene Oxide	136		54000
From Ethylene to Propane	24		0
From Ethylene to Butane	36		0
From Ethylene to Butadiene	96		36000
From Ethylene to Ammonia	82		36000
From Ethylene to Vinyl Chloride Monomer	112		36000
From Ethylene to Propylene Oxide	142		66000
From Ammonia to Propane (* , #)	108		54000
From Ammonia to Butane (* , #)	108		54000
From Ammonia to Butadiene	132		54,000
From Ammonia to Ethylene	118		54000
From Ammonia to Vinyl Chloride Monomer	132		54,000
From Ammonia to Propylene Oxide	132		54000
From Vinyl Chloride Monomer to Propane	114		54000
From Vinyl Chloride Monomer to Butane	114		54000
From Vinyl Chloride Monomer to Butadiene	138		54,000
From Vinyl Chloride Monomer to Ammonia	78		24,000
From Vinyl Chloride Monomer to Ethylene	120		54000
From Vinyl Chloride Monomer to Propylene Oxide	138		54000
From Propylene Oxide to Propane	154		66000
From Propylene Oxide to Butane	154		66000
From Propylene Oxide to Butadiene	160		66000
From Propylene Oxide to Ethylene	160		66000
From Propylene Oxide to Vinyl Chloride Monomer	166		66000
From Propylene Oxide to Ammonia	116		36000

(*) means to include air purging and inerting (#) means for condition of less than 15ppm ammonia.

Loading cargoes of ammonia or after ammonia is often subject to specific terminal requirements.

Cargo Grade Change Operations that cannot be carried out at sea:

N/A

B17 PRE-LOADING COOLDOWN

The following questions ask the Time and Quantity of coolant required to cooldown cargo tanks from ambient temperature to fully gassed up state sufficient to allow loading to commence.

17.1	Propane - Quantity of Coolant Required	100	m3
	Propane - Time required to cooldown cargo tanks from ambient temperature with vapour return line	8	Hours
	Propane - Time required to cooldown cargo tanks from ambient temperature without vapour return line	12	Hours
17.2	Butane - Quantity of Coolant Required	100	m3
	Butane - Time required to cooldown cargo tanks from ambient temperature with vapour return line	4	Hours
	Butane - Time required to cooldown cargo tanks from ambient temperature without vapour return line	6	Hrs.
17.3	Butadiene - Quantity of Coolant Required	80	m3
	Butadiene - Time required to cooldown cargo tanks from ambient temperature with vapour return line	3	Hours
	Butadiene - Time required to cooldown cargo tanks from ambient temperature without vapour return line	4	Hours
17.4	Propylene - Quantity of Coolant Required	80	m3
	Propylene - Time required to cooldown cargo tanks from ambient temperature without vapour return line	8	Hours
	Propylene - Time required to cooldown cargo tanks from ambient temperature with vapour return line	12	Hours
17.5	Ethylene - Quantity of Coolant Required	80	m3
	Ethylene - Time required to cooldown cargo tanks from ambient temperature with vapour return line	12	Hours
	Ethylene - Time required to cooldown cargo tanks from ambient temperature without vapour return line	16	Hrs.
17.6	Ammonia - Quantity of Coolant Required	70	m3
	Ammonia - Time required to cooldown cargo tanks from ambient temperature with vapour return line	6	Hours
	Ammonia - Time required to cooldown cargo tanks from ambient temperature without vapour return line	8	Hours
17.7	VCM - Quantity of Coolant Required	60	m3
	VCM - Time required to cooldown cargo tanks from ambient temperature without vapour return line	4	Hours
	VCM - Time required to cooldown cargo tanks from ambient temperature with vapour return line	4	Hours

B18 CARGO HEATER/VAPORISER (acting as vaporiser)

		Shell and tube	
18.1	Type of Vaporiser	1	
18.2	Number of Vaporisers fitted	1400	m3/hr Vap
18.3	Capacity per unit - Propane	5.16	m3/hr Liq
18.4	Liquid Supply Rate	-42	Deg. C
18.5	Delivery Temperature	1500	m3/hr Vap
18.6	Capacity per unit - Ammonia	1.78	m3/hr Liq
18.7	Liquid Supply Rate	-33	Deg. C
18.8	Delivery Temperature	N/A	m3/hr Vap
18.9	Capacity per unit - Nitrogen	N/A	m3/hr Liq
18.10	Liquid Supply Rate	N/A	Deg. C
18.11	Delivery Temperature		

B19 BLOWER

		Centrifugal fans (3 OFF)	
19.1	Type of Blower		
19.2	Rated Capacity	3000	Nm3/hr
19.3	Delivery Pressure	1200	mm H2O

B20 CARGO HEATER/VAPORISER (acting as heater)

- 20.1 Type of Re-Heater
- 20.2 Number Fitted
- 20.3 Heating Medium
- 20.4 Discharge rates with sea water at 15 degrees C to raise product temperature of **Propane** from -42 degrees C to 0 degrees C
- 20.5 Discharge rates with sea water at 15 degrees C to raise product temperature of **Ammonia** from -33 degrees C to 0 degrees C

Shell and tube	
	1
	Sea water
	400
	260

m3/hr

m3/hr

B21 HYDRATE CONTROL

- 21.1 Type of Depressant?
- 21.1.1 Freezing point temperature?
- 21.2 Quantity of Depressant Carried?
- 21.3 Location of injection?
Name any other system used

Ethanol	
	-114.1
	200
Outlet cgo receiver	At pump discharge
N/A	

Deg. C

Ltr.

B22 CARGO MEASUREMENT

Level Gauges

- 22.1 Are level gauges local or remote?
- 22.2 Name of manufacture
- 22.3 Type
- 22.4 Rated Accuracy
- 22.5 Certifying Authority

	Both
Henri System Holland BV	
	Float
	+/- 2
	SGS

mm.

Temperature Gauges

- 22.6 Name of manufacture
- 22.7 Type
- 22.8 Rated Accuracy
- 22.9 Certifying Authority

WIKA	
TR 95 Pt100	
	<0.27
	SGS

deg C

Pressure Gauges

- 22.10 Name of manufacture
- 22.11 Type
- 22.12 Rated Accuracy
- 22.13 Certifying Authority

Rosemount	
82234 Wessling	
	0,01
	SGS

bar

Oxygen Analyser

- 22.14 Name of manufacture
- 22.15 Type
- 22.15.1 What is the lowest level measurable?

Bernt, Dusseldorf, Germany	
Crowcon, Txgard-IS+	
	0

%

Fixed Gas Analyser

- 22.16 Name of manufacture
- 22.17 Type
- 22.18 Are Cargo tank calibration tables available?
- 22.19 Name of Measuring Company
- 22.20 Name of Certifying Authority
- 22.21 Calibration calculated to cm?
- 22.21.1 Calibration calculated to 1/2 cm?
- 22.22 Tables established to cm?
- 22.22.1 Tables established to mm?
- 22.22.2 Tables established to "other" (state what other)
- 22.23 Are trim and list corrections available?
- 22.24 Are temperature corrections available?
- 22.25 Are float gauge tape corrections available?

Autronica	
Flammable analyser	OGS 3,11/16
	YES/NO
	SGS
	LRS
	YES/NO
	YES/NO
	YES/NO
	YES/NO
	YES/NO
	YES/NO
	YES/NO
	YES/NO

B23 CARGO SAMPLING

- 23.1 May cargo samples be obtained from the levels; top, middle and bottom in all cargo tanks?

YES

If no, - the arrangement for sampling is limited to:

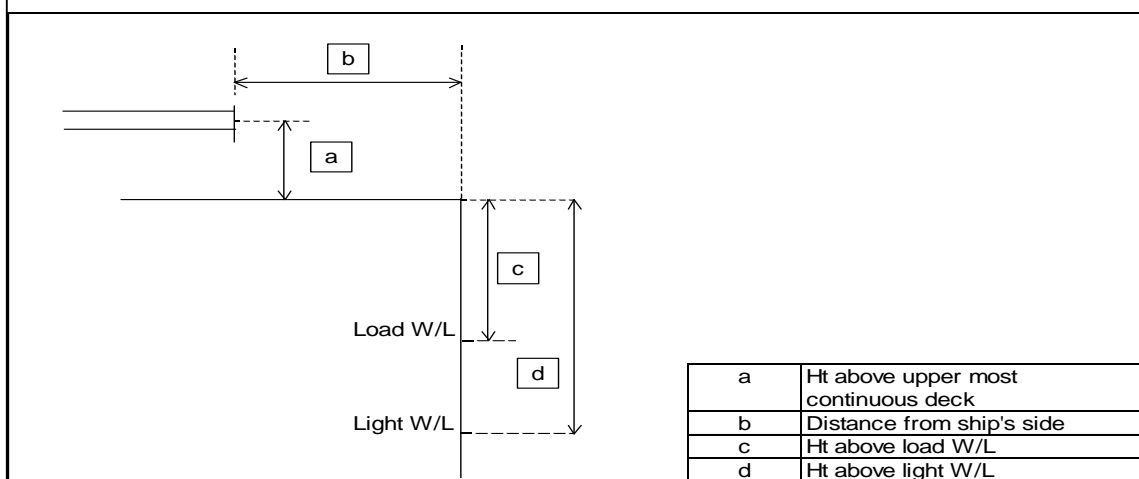
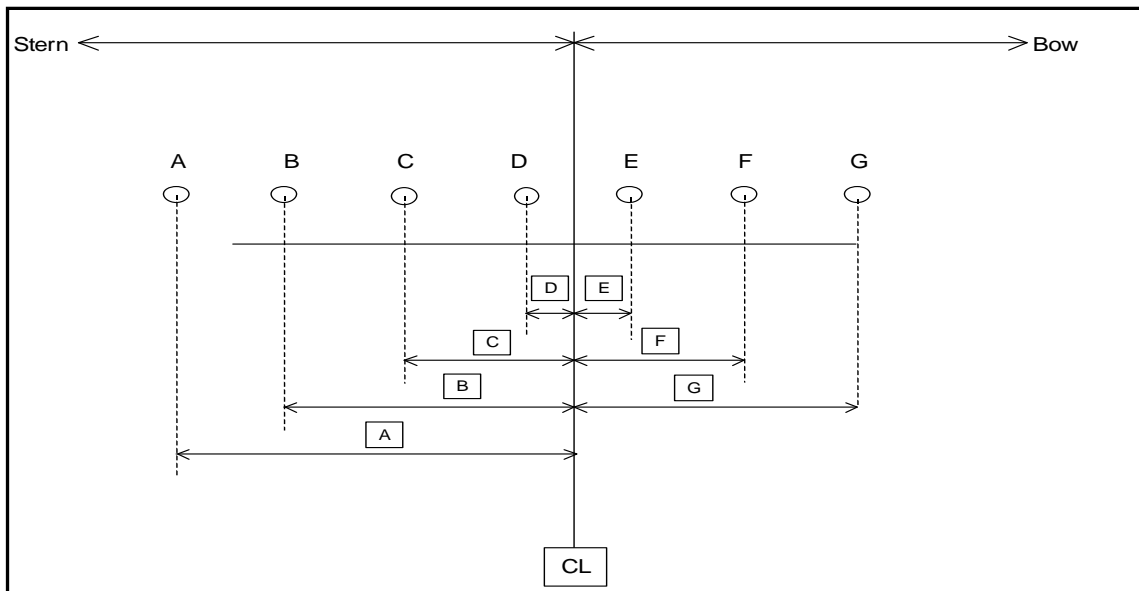
- 23.2 Can samples be drawn from tank vapour outlet?
 Can samples be drawn from manifold liquid line?
 Can samples be drawn from manifold vapour line?
 Can samples be drawn from pump discharge line?
- 23.3 State sample connection type
 Size of sample connection

	YES
	YES
	YES
	YES
BALL VALVE	NPT(F)
	1/2" BSPP

B24 CARGO MANIFOLD

TBA

Manifold arrangement diagram



- Center of manifold to bow
 Center of manifold to stern
 Dimension A
 Dimension B
 Dimension C
 Dimension D
 Dimension E
 Dimension F
 Dimension G
 Dimension H
 Height a
 Distance b
 Height c

69.62	M.
77.44	M.
4700	mm.
3950	mm.
1950	mm.
650	mm.
650	mm.
1950	mm.
2700	mm.
3950	mm.
2850	mm.
2004	mm.
3411	mm.

Height d	9125	mm.
Pipe Flange A - duty	Fuel oil (D.O.)	
Pipe Flange A - rating	3.3	bar
Pipe Flange A - size	100A	mm.
Pipe Flange A raised or flat face	Raised	
Pipe Flange B - duty	Fuel oil	
Pipe Flange B - rating	3.3	bar
Pipe Flange B - size	150A	mm.
Pipe Flange B raised or flat face	Raised	
Pipe Flange C - duty	Liquid System II	
Pipe Flange C - rating	30	bar
Pipe Flange C - size	10"	
Pipe Flange C raised or flat face	Raised	
Pipe Flange D - duty	Vapour System II	
Pipe Flange D - rating	18.6	bar
Pipe Flange D - size	6"	
Pipe Flange D raised or flat face	Raised	
Pipe Flange E - duty	Vapour System I	
Pipe Flange E - rating	18.6	bar
Pipe Flange E - size	4"	
Pipe Flange E raised or flat face	Raised face	
Pipe Flange F - duty	Liquid System I	
Pipe Flange F - rating	30	bar
Pipe Flange F - size	8"	
Pipe Flange F raised or flat face	Raised face	
Pipe Flange G - duty	Nitrogen	
Pipe Flange G - rating	6	bar
Pipe Flange G - size	3"	mm.
Pipe Flange G raised or flat face	Raised face	
Pipe Flange H - duty	Fuel oil	
Pipe Flange H - rating	3.3	bar
Pipe Flange H - size	150A	mm.
Pipe Flange H raised or flat face	Raised face	
Height above uppermost continuous deck	2850	mm.
Distance from ship side	2517	mm.
Height above load waterline	6261	mm.
Height above light waterline	11975	mm.

Manifold Arrangement Located on Top of Compressor

Distance from rail of compressor room/platform to presentation flanges	N/A	mm.
Distance from deck of compressor room/platform/try to centre of manifold	N/A	mm.

B25 CARGO MANIFOLD REDUCERS

25.1	Number of ANSI Class 300 reducers carried onboard	14	
	Flange rating of ANSI Class 300 reducer	30	bar
	Size of ANSI Class 300 reducer	Var	mm.
	Length of ANSI Class 300 reducer	500	mm.
25.2	Number of ANSI Class 300 to Class 150 reducers carried onboard	14	
	Flange rating of ANSI Class 300 to Class 150 reducer	18.6	bar
	Size of ANSI Class 300 to Class 150 reducer	Var	mm.
	Length of ANSI Class 300 to Class 150 reducer	500	mm.
25.3	Number of ANSI Class 150 reducers carried onboard	4 (FO/DO)	
	Flange rating of Class 150 reducer	18.6	bar
	Size of ANSI Class 150 reducer	Var	mm.
	Length of ANSI Class 150 reducer	500	mm.

B26 CONNECTIONS TO SHORE FOR ESD AND COMMUNICATIONS SYSTEMS

26.1	Is ESD connection to shore available?	YES
	If yes, is the system pneumatic?	NO
	If yes, is the system electrical?	YES
	If yes, is the system fiber optic?	NO

26.2	What is the type of connection used?	Pendant	
26.3	Are ESD hoses or cables available on board?	YES	
	If yes, length of pneumatic	0	mm.
	If yes, length of electrical	30	m
	If yes, length of fiber optic	0	mm.
26.4	Is there a connection available for a telephone line?	NO	
26.5	Are ESD connections available on both sides of vessel?	YES	
	Are ESD Fusible plugs fitted at tank domes?	YES	
	Are ESD Fusible plugs fitted at manifolds?	YES	
	Is the link compatible with the SIGTTO guidelines?	YES	
	Type of manifold valve	Actuated Butterfly	
	Closing time in seconds	28	secs
	Is closing time adjustable?	YES	
	Is Independent high level shut down system fitted(overflow control)?	YES	
	If yes, does the independent high level shutdown system also switch off running cargo pumps?	YES	
	Shut down level %	98	%

B27 MANIFOLD DERRICK/CRANE

27.1	Is manifold derrick provided	NO	
27.2	Is manifold crane provided	YES	
27.3	Is lifting equipment same for port and starboard?	Yes	
	If no, then stipulate details	-	
27.4	State SWL at maximum outreach	5	Tonnes
27.4.1	Maximum outreach of lifting equipment	7.7	Metres

B28 STORES DERRICK/CRANE

28.1	State location	Accommodation AFT STB'D sides	
	SWL	4	Tonnes

B29 SISTER VESSEL(S)

29.1	Name of vessel	ITHAKI
		KITHIRA
		ANTIKITHIRA
		OTHONI
		ASTIPALEA
		PAROS
		KITHNOS
		DILOS