Oil Companies International Marine Forum

SIRE Programme

Vessel Particulars Questionnaire

ALPINE ENDURANCE

IMO/LR Number 9430260

08 Mar 2011

CHAPTER 1 CHAPTER 1

1 GENERAL INFORMATION

1.1	Date this HVPQ document completed	31 January 2011
1.2	Name of ship	ALPINE ENDURANCE
1.3	LR/IMO Number	9430260
1.4	Last previous name	STEALTH S.V
1.4.1	Date of name change	27 April 2009
1.5	Second last previous name	Not applicable
1.5.1	Date of name change	Not applicable
1.6	Third last previous name	Not applicable
1.6.1	Date of name change	Not applicable
1.7	Fourth last previous name	Not applicable
1.7.1	Date of name change	Not applicable
1.8	Flag	MARSHALL ISLANDS
1.9	Port of Registry	MAJURO
1.10	If the flag has been changed, what was previous flag?	Not applicable
1.11	Call sign	V7RK9
1.12	INMARSAT number	+ 870 764909685
1.13	Ship's fax number	+ 870 764909687
1.14	Ship's telex number	453834274 or 275
1.15	Mobile Phone Number	
1.16	Ship's Email address	alpine-endurance@ship.transpetrol.com
1.17	Type of ship	Oil Tanker
1.18	Vessel's MMSI No. (Maritime Mobile Selective Call Identity Code)	538003530
1.19	Type of Hull	Double hull

2 OWNERSHIP AND OPERATION

1.20	Name of the Registered Owner	KING OF HEARTS INC.TRUST COMPANY COMPLEX AJELTAKE ROAD, AJELTAKE ISLANDM.H 96360MARSHALL ISLANDSKING OF HEARTS INC.
1.20.1	Full address	TRUST COMPANY COMPLEX AJELTAKE ROAD, AJELTAKE ISLANDM.H 96360, MARSHALL ISLANDS
1.20.2	Office telephone number	+32-26720200
1.20.3	Office telex number	51210416 TPMAR G
1.20.4	Office fax number	+32-26755257
1.20.5	Office Email address	maritime.be@transpetrol.com
1.20.6	Contact person	JEAN PHILIPPE SISSENER / V. TAYMANS
1.20.7	Contact person after hours telephone number	0032 2 652 0850 / 0032 475 300455

1.21	Number of years this ship has been owned by Registered Owner	1.0 Years
1.22	Name of Technical Operator (if different from Registered Owner)	TRANSPETROL TM As
1.22.1	Full Address	KNUD ASKARS VEI 20B, 1383 ASKAR, NORWAY
1.22.2	Office telephone number	+47-66908060
1.22.3	Office telex number	
1.22.4	Office fax number	Not applicable
1.22.5	Office Email address	marinehseq.no@transpetrol.com
1.22.6	Contact person (Designated Person Ashore)	PAAL STENBERG
1.22.7	Contact person after hours telephone number	+47-92240662
1.22.8	Emergency callout number	+47-66908099
1.22.9	Emergency callout pager number	
1.22.10	Contact details for person responsible for oil spill response	PAAL STENBERG
1.23	Number of years this vessel has been controlled by technical operator	1.0 Years
1.24	Total number of ships operated by this Technical Operator	13
1.25	Name of Commercial Operator (if different from Registered Owner)	ST SHIPPING AND TRANSPORT PTE. LTD
1.25.1	Full Address	1 TEMASEK AVENUE, #34-01 MILENIA TOWER, SINGAPORE 039192
1.25.2	Office telephone number	+65-64157756
1.25.3	Office telex number	264136 SHINC G
1.25.4	Office fax number	+44-2074123498
1.25.5	Office Email address	operations@stshipping.com
1.25.6	Contact person	BALAKRUSNAN PUNNIANTHAN
1.25.7	Contact person after hours telephone number	+65-97287846

3 BUILDER

1.26	Builder	HYUNDAI MIPO DOCKYARD CO LTD
1.27	Date of building contract	27 November 2006
1.28	Hull number	H 2139
1.29	Date keel laid	11 December 2008
1.30	Date launched	16 February 2009
1.31	Date delivered	14 April 2009
1.32	If applicable, date of completion of major hull changes	Not applicable
1.33	List what changes were made.	Not applicable

4 CLASSIFICATION

1.34	Classification society	LLOYD'S REGISTER OF SHIPPING

1.35	Class Notation	+100A 1 , DOUBLE HULL OIL & CHEMICAL TANKER, SHIP TYPE 3 CSR,ESP,*IWS, LI, +LMC, IGS, UMS, COW(LR), GREEN PASSPORT, PART HIGHER TENSILE STEEL, SBT(LR),SHIPRIFHT(BWMP(S), SERS, SCM)
1.36	If Classification society changed, name of previous society	Not applicable
1.37	If Classification society changed, date of change	Not applicable
1.38	Date of last dry-dock	Not applicable
1.39	Date of second last dry-dock	Not applicable
1.40	Date next dry-dock due	13 February 2014
1.41	Date of last special survey	
1.42	Was last special survey an enhanced special survey?	Not applicable
1.43	Date next special survey due	Not applicable
1.44	If ship has Condition Assessment Programme (CAP) rating, what is the latest rating?	0
1.45	Date of last annual survey	4 May 2009
1.46	Date of last boiler survey - Port boiler	14 April 2009
1.47	Date of last boiler survey - Starboard boiler	Not applicable
1.48	Is the ship subject to Continuous Machinery Survey?	Yes

5 DIMENSIONS

1.49	Length overall (LOA)	183.17 Meters
1.50	Length between perpendiculars (LBP)	174.02 Meters
1.51	Extreme breadth	32.24 Meters
1.52	Moulded breadth	32.20 Meters
1.53	Moulded depth	18.80 Meters
1.54	Keel to masthead	48.87 Meters
1.55	Distance bow to bridge	148.92 Meters
1.56	Distance bridge front - mid point manifold	57.25 Meters
1.57	PARALLEL MID-BODY DIAGRAM	
1.57.1	Distance bow to mid-point manifold	91.67 Meters
1.57.2	Distance stern to mid-point manifold	91.50 Meters
1.57.3	Parallel body (light ship)	54.51 Meters
1.57.4	Parallel body, forward to mid-point manifold (light ship)	38.83 Meters
1.57.5	Parallel body, aft to mid-point manifold (light ship)	15.68 Meters
1.57.6	Parallel body (normal ballast)	79.32 Meters
1.57.7	Parallel body, forward to mid-point manifold (normal ballast)	43.50 Meters
1.57.8	Parallel body, aft to mid-point manifold (normal ballast)	35.82 Meters
1.57.9	Parallel body at loaded summer deadweight (SDWT)	98.19 Meters

1.57.10	Parallel body, forward to mid-point manifold at loaded SDWT	43.55 Meters
1.57.11	Parallel body, aft to mid-point manifold at loaded SDWT	54.64 Meters
1.58	Does ship have a bulbous bow?	Yes

6 TONNAGES

1.59	Net Registered Tonnage	12052 Tonnes
1.60	Gross Tonnage	29130 Tonnes
1.61	Suez Tonnage	0 Tonnes
1.61.1	Suez Canal Gross Tonnage (SCGT)	30557.67 Tonnes
1.61.2	Suez Canal Net Tonnage (SCNT)	26120.23 Tonnes
1.62	Panama Tonnage	24188 Tonnes

7 LOADLINE INFORMATION

1.63.1	Summer Freeboard	6.613 Meters
1.63.2	Summer Draft	12.215 Meters
1.63.3	Summer Deadweight	46121 Tonnes
1.63.4	Summer Displacement	56300 Tonnes
1.64.1	Winter Freeboard	6.867 Meters
1.64.2	Winter Draft	11.961 Meters
1.64.3	Winter Deadweight	44803 Tonnes
1.64.4	Winter Displacement	54982 Tonnes
1.65.1	Tropical Freeboard	6.359 Meters
1.65.2	Tropical Draft	12.469 Meters
1.65.3	Tropical Deadweight	47442 Tonnes
1.65.4	Tropical Displacement	57621 Tonnes
1.66.1	Lightship Freeboard	16.258 Meters
1.66.2	Lightship Draft	2.57 Meters
1.66.3	Lightship Deadweight	0 Tonnes
1.66.4	Lightship Displacement	10200 Tonnes
1.67.1	Normal Ballast Condition Freeboard	12.128 Meters
1.67.2	Normal Ballast Condition Draft	6.700 Meters
1.67.3	Normal Ballast Condition Deadweight	18630 Tonnes
1.67.4	Normal Ballast Condition Displacement	28837 Tonnes
1.68.1	Segregated Ballast Condition Freeboard	11.678 Meters
1.68.2	Segregated Ballast Condition Draft	7.15 Meters
1.68.3	Segregated Ballast Condition Deadweight	20776 Tonnes
1.68.4	Segregated Ballast Condition Displacement	30983 Tonnes
1.69	FWA at Summer Draft (Freeboard)	271 Millimeters
1.70	TPC Immersion at Summer Draft (Freeboard)	51.98 Tonnes

1.71.1	Draught Fore at normal ballast conditions (Freeboard)	6.36 Meters
1.71.2	Draught Aft at normal ballast conditions (Draft)	7.08 Meters
1.72	Does ship have Multiple SDWT ?	Yes
1.73	If yes, what is maximum assigned Deadweight?	46121 Tonnes
1.74	What is the max. height of mast above waterline (air draft) in normal SBT condition?	40.99 Meters

8 RECENT OPERATIONAL HISTORY

1.75	Has the ship traded continuously without requirement for unscheduled repairs since the last dry-dock, except for normal maintenance?	Not applicable
1.76	If unscheduled repairs have been carried out, what was the nature of the repairs?	Not applicable
1.77	Has ship been involved in a pollution incident during the past 12 months?	Not applicable
1.78	Has ship been involved in a grounding incident during the past 12 months?	Not applicable
1.79	Has ship been involved in a collision during the past 12 months?	Not applicable

CHAPTER 2 CHAPTER 2

1 CERTIFICATES

2.1	Register Number	ALPINE ENDURANCE - OFFICIAL NO:3530
2.2.1	Safety Equipment Certificate (Issued)	11 July 2010
2.2.2	Safety Equipment Certificate (Expires)	13 April 2014
2.2.3	Safety Equipment Certificate (Last Annual)	30 June 2010
2.3.1	Safety Radio Certificate (Issued)	4 May 2009
2.3.2	Safety Radio Certificate (Expires)	13 April 2014
2.3.3	Safety Radio Certificate (Last Annual)	26 June 2010
2.4.1	Safety Construction Certificate (Issued)	11 July 2010
2.4.2	Safety Construction Certificate (Expires)	13 April 2014
2.4.3	Safety Construction Certificate (Last Annual)	26 June 2010
2.5.1	Loadline Certificate (Issued)	26 June 2010
2.5.2	Loadline Certificate (Expires)	13 April 2014
2.5.3	Loadline Certificate (Last Annual)	26 June 2010
2.6.1	International Oil Pollution Prevention Certificate (IOPPC) (Issued)	12 July 2010
2.6.2	International Oil Pollution Prevention Certificate (IOPPC) (Expires)	13 April 2014
2.6.3	International Oil Pollution Prevention Certificate (IOPPC) (Last Annual)	26 June 2010
2.7	Type of Oil Tanker as specified by IOPPC Crude/Product (If not an oil tanker, specify)	OIL TANKER
2.8.1	Safety Management Certificate (Issued) (SMC)	20 January 2011

2.8.2	Safety Management Certificate (Expires) (SMC)	20 June 2011
2.8.3	Safety Management Certificate (Last Intermediate) (SMC)	
2.9.1	Document of Compliance (Issued) (DOC)	14 January 2011
2.9.2	Document of Compliance (Expires) (DOC)	21 December 2014
2.9.3	Document of Compliance (Endorsed) (DOC)	
2.10.1	USCG Letter of Compliance (if applicable) (Issued)	4 May 2009
2.10.2	USCG Letter of Compliance (if applicable) (Expires)	
2.10.3	USCG Letter of Compliance (if applicable) (Last Annual)	
2.11.1	Date of last USCG Tank Vessel Examination Letter (TVEL) (Issued)	
2.11.2	Date of last USCG Tank Vessel Examination Letter (TVEL) (Expires)	
2.12	Minimum Safe Manning Certificate	12 July 2010
2.13	Civil Liability Convention Certificate (1969)	
2.14	Civil Liability Convention Certificate (1992)	19 January 2010
2.15	U.S. Certificate of Financial Responsibility	
2.16	Certificate of Fitness (Chemicals)	12 July 2010
2.17	Certificate of Fitness (Gas)	
2.18	Noxious Liquids Certificate	
2.19	Unattended Machinery Space Certificate (Issued)	12 July 2010
2.20	International Tonnage Certificate (Issued)	4 May 2009

2 DOCUMENTS

2.21	IMO Safety of Life at Sea Convention (SOLAS 74)	Yes
2.22	IMO International Code of Signals (SOLAS V-Reg 21)	Yes
2.23	IMO International Convention for the Prevention of Pollution from Ships (MARPOL 73/78)	Yes
2.24	IMO Ships Routeing	Yes
2.25	IMO International Regulations For Preventing Collisions at Sea (COLREGS)	Yes
2.26	IMO Standards of Training, Certification and Watchkeeping (STCW Convention)	Yes
2.27	ICS Guide to Helicopter/Ship Operations	Yes
2.28	OCIMF/ICS/IAPH International Safety Guide for Oil Tankers and Terminals (ISGOTT)	Yes
2.29	OCIMF/ICS Clean Seas Guide for Oil Tankers	Yes
2.30	OCIMF/ICS Prevention of Oil Spillages Through Cargo Pumproom Sea Valves	Yes
2.31	OCIMF/ICS Ship to Ship Transfer Guide (Petroleum)	Yes
2.32	OCIMF Recommendations for Oil Tanker Manifolds and Associated Equipment	Yes
2.33	OCIMF Mooring Equipment Guidelines	Yes

2.34	OCIMF Effective Mooring	Yes
2.35	USCG Regulations for Tankers (USCG 33 CFR/46 CFR)	Yes
2.36	Oil Transfer Procedures (USCG 33 CFR 155-156)	Yes
2.37	Operator's ISM Manuals	Yes
2.38	Is the publication IMO-Inert Gas Systems, or Ship Technical Operator's equivalent manual on board?	Yes
2.39	Is the publication IMO-Cow Systems, or Ship Technical Operator's equivalent manual on board?	Yes
2.40	ICS Bridge Procedures Guide	Yes
2.41	IAMSAR Vol.3	Yes
2.42	Nautical Institute Bridge Team Management	Yes
2.43	International Medical Guide for Ships(or equivalent)	Yes
2.44	ISPS Code	Yes

3 FOR CHEMICAL TANKERS ONLY

2.45	IMO Code for Construction & Equipment of Ships Carrying Dangerous Chemicals in Bulk (IBC Code)	Yes
2.46	IMO Index of Dangerous Chemicals Carried in Bulk	No
2.47	ICS Tanker Safety Guide (Chemicals)	Yes
2.48	IMO Code for Construction & Equipment of Ships Carrying Dangerous Chemicals in Bulk (BCH Code)	Yes
2.49	Chemical Data Guide (USCG 1990 CIM 16616.6A)	No
2.50	Medical First Aid Guide for Use in Accidents involving Dangerous goods (MFAG)	Yes
2.51	Procedures and Arrangements (P&A) Manual	Yes

4 FOR GAS CARRIERS ONLY

2.52	IMO Code for Construction & Equipment of Ships Carrying Liquefied Gases in Bulk (IGC Code)	No
2.53	ICS Tanker Safety Guide (Liquefied Gas)	
2.54	SIGTTO Liquefied Gas Handling Principles on Ships and in Terminals	
2.55	SIGTTO Guide to Pressure Relief Valve Maintenance and Testing	
2.56	ICS Ship to Ship Transfer Guide (Liquefied Gases)	
2.57	IMO International Code for the Construction and Equipment of Ships Carrying Liquefied Gases in Bulk (IGC Code)	
2.58	IMO Code for Existing Ships Carrying Liquefied Gases in Bulk (EGC Code)	

CHAPTER 3 CHAPTER 3

1 CREW MANAGEMENT

3.1	Minimum manning required (officers)	6

3.1.1	Actual manning (officers)	10
3.1.2	List Nationality of Officers	RUSSIAN, UKRAINIAN, INDIAN
3.1.3	Master employed by (Vessel Operator)	No
3.1.4	Officers employed by (Vessel Operator)	No
3.1.5	Ratings employed by (Vessel Operator)	No
3.1.6	Common language used (Vessel Operator)	ENGLISH
3.1.7	Full name of Manning agent 1 (Officers)	WILHELMSEN SHIP MANAGEMENT SDN. BHD
3.1.7.1	Full address	18TH FLOOR, 1 SENTRAL CUILDING,, JALAN TRAVERS, KUALA LAMPUR SENTRAL, 50470 KUALA LAMPUR, MALAYSIA
3.1.7.2	Office telephone number	+60 3 2084 5601
3.1.7.3	Office telex number	Not applicable
3.1.7.4	Office fax number	+60-3-2084 5604; +60 3 2084 5605
3.1.7.5	Office Email address	Mohd-Sham.Muhajreen@wilhelmsen.com
3.1.8	Are manning agent(s) wholly or partially owned by Operator?	Not applicable
3.1.9	If No, does Operator have selection rights?	Yes
3.1.10	Does vessel's Operator maintain personnel files on officers assigned to his vessels?	Yes
3.1.11	Do officers regularly return to Operator's vessels?	Yes
3.2	Minimum manning required (ratings)	7
3.2.1	Actual manning (ratings)	7
3.2.2	List Nationality of Ratings	Indian, Filipino
3.2.3	Master employed by (Manning Agent)	Yes
3.2.4	Officers employed by (Manning Agent)	Yes
3.2.5	Ratings employed by (Manning Agent)	Yes
3.2.6	Common language used (Manning Agent)	ENGLISH
3.2.7	Full name of Manning agent 1 (Ratings)	WILHELMSEN SHIP MANAGEMENT SDN. BHD
3.2.7.1	Full address	18TH FLOOR, 1 SENTRAL CUILDING,, JALAN TRAVERS, KUALA LAMPUR SENTRAL, 50470 KUALA LAMPUR, MALAYSIA
3.2.7.2	Office telephone number	+60-3-2084 5601
3.2.7.3	Office telex number	Not applicable
3.2.7.4	Office fax number	+60-3-2084 5604; +60 3 2084 5605
3.2.7.5	Office Email address	Mohd-Sham.Muhajreen@wilhelmsen.com
3.2.8	Does vessel's Operator maintain personnel files on ratings assigned to his vessels?	Yes
3.2.9	Do ratings regularly return to Operator's vessels?	Yes

2 CONTINUITY

3.3	Do senior officers return to the same ship on a rotational basis?	Yes
3.4	Are senior officers rotated on ships of similar class within company fleet?	Yes

3.5	Are junior officers and ratings rotated on ships of similar class within company fleet?	Yes
3.6	If senior officers do not return to same ship on a rotational basis, are changes of Master, Chief Officer and Second Engineer organised to avoid a full change of officers at same time?	Yes

3 TRAINING

3.7	List Operator sponsored training courses available to officers (Bridge Management etc.)	BTM, BRM, FRAMO, ECDIS, BRIDGE SIMULATOR, ENGINE SIMULATOR,SSO,
3.8	List Operator sponsored training courses available to ratings (Fire Fighting etc.)	FIRE FIGHTING, PSSR, PSCB, FRAMO
3.9	Are Masters and Chief Engineers required to attend company office before and after each tour of duty?	Yes
3.10	Does operator hold regular training seminars ashore for officers?	Yes
3.11	Are training seminars provided on board for officers and ratings?	Yes
3.12	What courses, exceeding statutory requirements, are provided for senior officers?	FRAMO, ECDIS, BRIDGE SIMULATOR, ENGINE SIMULATOR, BTM, BRM
3.13	What courses, exceeding statutory requirements, are provided for junior officers?	FRAMO, ECDIS, BTM, BRM
3.14	What courses, exceeding statutory requirements, are provided for ratings?	FRAMO, WORKSHOP TRANNING

CHAPTER 4 CHAPTER 4

1 NAVIGATION

4.1.1	Magnetic compass	Yes
4.1.2	Magnetic compass (Type)	SARACOM WET CARD COMPASS
4.1.3	Magnetic compass (Number of Units)	2
4.2.1	Gyro compass	Yes
4.2.2	Gyro compass (Type)	TOKIMEC TG-8000
4.2.3	Gyro compass (Number of Units)	1
4.3.1	Gyro Autopilot	Yes
4.3.2	Gyro Autopilot (Type)	TOKIMEC PR-6612A-EO-SS2
4.3.3	Gyro Autopilot (Number of Units)	1
4.4.1.1	Radar 1	Yes
4.4.1.2	Radar (Type)	FURUNO - S BAND (FR - 2827S)
4.4.1.3	Radar 1 (Number of Units)	1
4.4.2.1	Radar 2	Yes
4.4.2.2	Radar (Type)	FURUNO - X BAND (FAR - 2827)
4.4.2.3	Radar 2 (Number of Units)	1
4.4.3	Are radars gyro stabilised?	Yes
4.5	Is there at least one radar operating in the 9 GHz frequency band (3cm/x band)?	Yes

4.6	Are the 3 GHz (10cm/S band) and 9Ghz (3cm / X band) radars fitted with an electronic switching unit?	Yes
4.7.1	Radar plotting equipment	No
4.7.2	Radar plotting equipment (Type)	Not applicable
4.7.3	Radar plotting equipment (Number of Units)	0
4.8.1	Are the Radars fitted with ARPA?	Yes
4.8.2	Type of ARPA	FURUNO
4.8.3	Number of ARPA Units installed	2
4.9.1	Depth sounder with recorder	Yes
4.9.2	Depth sounder with recorder (Type)	FURUNO FE-700
4.9.3	Depth sounder with recorder (Number of Units)	1
4.10.1	Speed/distance indicator	Yes
4.10.2	Speed/distance indicator (Type)	DS-50
4.10.3	Speed/distance indicator (Number of Units)	1
4.11.1	Doppler log	Yes
4.11.2	Doppler log (Type)	FURUNO DS - 50
4.11.3	Doppler log (Number of Units)	2
4.12.1	Docking approach doppler	No
4.12.2	Docking approach doppler (Type)	
4.12.3	Docking approach doppler (Number of Units)	0
4.13.1	Rudder angle indicator	Yes
4.13.2	Rudder angle indicator (Type)	RT-472
4.13.3	Rudder angle indicator (Number of Units)	1
4.14.1	RPM indicator	Yes
4.14.2	RPM indicator (Type)	PR AXIS
4.14.3	RPM indicator (Number of Units)	1
4.15.1	Controllable pitch propeller indicator	No
4.15.2	Controllable pitch propeller indicator (Type)	Not applicable
4.15.3	Controllable pitch propeller indicator (Number of Units)	Not applicable
4.16.1	Bow thruster indicator	
4.16.2	Bow thruster indicator (Type)	
4.16.3	Bow thruster indicator (Number of Units)	0
4.17.1	Stern Thrust indicator	
4.17.2	Stern Thrust indicator (Type)	
4.17.3	Stern Thrust indicator (Number of Units)	0
4.18.1	Rate of turn indicator	
4.18.2	Rate of turn indicator (Type)	
4.18.3	Rate of turn indicator (Number of Units)	1
4.19.1	Radio direction finder	No
4.19.2	Radio direction finder (Type)	

4.19.3	Radio direction finder (Number of Units)	0
4.20.1	Navtex receiver	Yes
4.20.2	Navtex receiver (Type)	FURUNO NX-700A
4.20.3	Navtex receiver (Number of Units)	1
4.21.1	Satellite navigation receiver	No
4.21.2	Satellite navigation receiver (Type)	
4.21.3	Satellite navigation receiver (Number of Units)	0
4.22.1	Is the ship fitted with GPS?	Yes
4.22.2	Type of GPS installed?	FURUNO GP 150
4.22.3	Number of GPS units installed?	2
4.23.1	Is the ship fitted with Differential GPS?	Yes
4.23.2	Type of Differential GPS installed?	GP-150
4.23.3	Number of Differential GPS units installed?	2
4.24.1	Is there an Electronic Chart Display?	No
4.24.2	Is there an Electronic Chart Display? (Type)	
4.24.3	Is there an Electronic Chart Display? (Number of Units)	0
4.25	Is the Electronic Chart Display incorporated into an approved ECDIS ?	
4.26.1	Integrated Navigation System (INS)	
4.26.2	Integrated Navigation System (INS) (Type)	
4.26.3	Integrated Navigation System (INS) (Number of Units)	0
4.27.1	Decca navigator	
4.27.2	Decca navigator (Type)	
4.27.3	Decca navigator (Number of Units)	0
4.28.1	Omega receiver	
4.28.2	Omega receiver (Type)	
4.28.3	Omega receiver (Number of Units)	0
4.29.1	Loran C receiver	
4.29.2	Loran C receiver (Type)	
4.29.3	Loran C receiver (Number of Units)	0
4.30.1	Course recorder	Yes
4.30.2	Course recorder (Type)	CR-4
4.30.3	Course recorder (Number of Units)	1
4.31.1.1	Off - course alarm - gyro	Yes
4.31.1.2	Off - course alarm - gyro (Type)	TOKIMEC TG-8000
4.31.1.3	Off - course alarm - gyro (Number of Units)	1
4.31.2.1	Off - course alarm - magnetic	Yes
4.31.2.2	Off - course alarm - magnetic (Type)	TM-42
4.31.2.3	Off - course alarm - magnetic (Number of Units)	1
4.32.1	Engine order printer	No

4.32.2	Engine order printer (Type)	
4.32.3	Engine order printer (Number of Units)	0
4.33.1	Anemometer	Yes
4.33.2	Anemometer (Type)	HERIANA - AC D10
4.33.3	Anemometer (Number of Units)	1
4.34.1	Weather fax	Yes
4.34.2	Weather fax (Type)	FURUNO FAX-410
4.34.3	Weather fax (Number of Units)	1
4.35	Does ship carry sextant(s)?	Yes
4.36	Does ship carry a signal lamp?	Yes
4.37	Is each bridge wing fitted with a rudder angle indicator?	Yes
4.38.1	Is each bridge wing fitted with a RPM indicator?	Yes
4.38.2	Is each bridge wing fitted with a gyro repeater?	Yes
4.39	If the ship is fitted with a controllable pitch propeller, are indicators fitted on the bridge wings?	Not applicable
4.40	Are steering motor controls and engine controls fitted on bridge wings?	No
4.41	Is bridge equipped with a 'Dead-Man' alarm or equipment?	No

CHAPTER 5 CHAPTER 5

1 SAFETY MANAGEMENT

5.1	Is the vessel operated under a Quality Management System?	Yes
5.1.1	If Yes, what type of system? (ISO9002 or IMO Resolution A.741(18))?	IMO resolution A.741(18)
5.1.2	If Yes, who is the certifying body?	DNV
5.1.3	Date of vessel certification	20 January 2011

2 HELICOPTERS

5.2	Can the ship comply with the ICS Helicopter Guidelines?	Yes
5.2.1	If Yes, state whether winching or landing area provided	Winching
5.2.2	What is diameter of circle provided?	5 Meters

3 FIRE FIGHTING EQUIPMENT & LIFE SAVING EQUIPMENT

5.3	Is a fixed foam firefighting system installed for the cargo area?	Yes
5.4	Type of foam on board	Alcohol
5.5	Date of foam supply or last analysis certificate	7 April 2010
5.6	What fixed fire fighting system is provided for the paint locker?	WATER SPRAY

5.7	What type of fire fighting system is fitted in pumproom(s)?	Not applicable
5.8	What type of fire fighting system is fitted in engine room(s)?	WATER MIST LOCAL FIRE FIGHTING SYSTEM AND CO2 SYSTEM (Total flooding)
5.9	What type of fire fighting system is fitted in void spaces(s)?	
5.10	Is a fixed dry powder firefighting system installed for the cargo area?	
5.11	Is a fixed water spray firefighting system installed for the cargo area?	
5.12	Is vessel equipped with recharging compressor for breathing apparatus?	Yes
5.13	What type of lifeboat is fitted?	Conventional
5.14	Is a dedicated rescue boat carried?	No
5.15	The type of rescue boat is: Rigid/inflated/ rigid-inflated	

CHAPTER 6 CHAPTER 6

1 POLLUTION PREVENTION

6.1	Is ship fitted with a continuous deck edge fishplate enclosing the deck area?	Yes
6.1.1	If Yes, what is its minimum vertical height above the deck plating?	165 Millimeters
6.1.2	What is maximum vertical height above deck plating at aft thwartships coaming?	300 Millimeters
6.1.3	How far forward is this height maintained?	45.80 Meters
6.2	Is an athwartship deck coaming fitted adjacent to accommodation and service areas?	Yes
6.3	What is the height of the coaming?	300 Millimeters
6.4	Is spill containment fitted under the cargo manifold?	Yes
6.5	Is spill containment fitted under all bunker manifolds?	Yes
6.6	Is containment fitted under the bunker tank vents?	Yes
6.7	Is containment fitted around the deck machinery?	Yes
6.8	Specify type of scupper plugs	mechanical type rubber 100a, sch160
6.9	Are means provided for draining or removing oil from deck area /containment?	No
6.10	Is the following pollution control equipment available to clean up oil spilled on deck:	
6.10.1	Sorbents	Yes
6.10.2	Non-sparking hand scoops/shovels	Yes
6.10.3	Containers	Yes
6.10.4	Emulsifiers	Yes
6.10.5	Non-sparking pumps	Yes
6.11	Is the cargo piping system fully segregated from the sea chest?	Yes

6.12	What type of sea valves that are fitted.	BUTTERFLY VALVE
6.13	If the ship is a pre-MARPOL tanker, is a cargo sea chest valve testing arrangement fitted which meets OCIMF recommendations?	Not applicable
6.14	Are dump valves fitted to slop tanks which can be left open with inert gas pressure on the tanks?	No
6.15	Are overboard discharges fitted with blanks or alternatively, is there a testing arrangement for the overboard valves?	No
6.16	Is there a discharge below the waterline for Annex II substances	Yes
6.17	Is there a discharge above the waterline for Annex I oily mixtures	Yes
6.18	Does Operator have policy to pressure test cargo piping at intervals no greater than 12 months?	Yes
6.18.1	If Yes, specify pressure	15 Bar
6.19	Is garbage incinerator fitted?	Yes

2 OPA 90 REQUIREMENTS

6.20	Has the vessel Operator submitted a Vessel Spill Response Plan to the US Coast Guard which has been approved by official USCG letter?	No
6.21	Has a Geographic Specific Appendix been filed with the Captain of the Port for each Port Zone the vessel expects to enter or transit?	No
6.22	Has the vessel Operator deposited a letter with the US Coast Guard confirming that the Operator has signed a service contract with an oil spill removal organisation for responding to a 'worst case scenario'?	No

CHAPTER 7 CHAPTER 7

1 STRUCTURAL CONDITION

7.1	Are cargo tanks coated?	Yes
7.1.1	If Yes, specify type of coating	PHENOLIC EPOXY COATING
7.1.2	If partially coated, specify which tanks are coated	Not applicable
7.1.3	If cargo tanks are coated, specify to what extent	FULL TANK AREA
7.2	What is the condition of coating as determined by the criteria listed below?	Good
7.3	Are ballast tanks coated?	Yes
7.3.1	If ballast tanks are coated, specify type of coating	EPOXY COATING
7.3.2	If ballast tanks are coated, specify to what extent	FULL TANK AREA
7.3.3	What is the condition of cargo/ballast tank coating?	GOOD
7.4	Are there anodes in the cargo tanks?	No
7.5	Are there anodes in the ballast tanks?	Yes
7.6	What type of anodes are used?	SECRIFICIAL ZN-ANODE
7.7	What percentage of anodes have wasted?	0 Percent

7.8	If anodes are aluminium, what is the height above tank bottom?	Not applicable
7.9	Is a formal programme in place for regular inspection of void spaces, cargo and ballast tanks?	Yes
7.10	Does ship have planned prevention maintenance programme (PPM)?	No
7.10.1	Is PPM manual (card system) or computerised?	
7.10.2	What areas of vessel does PPM cover?	
7.10.3	Is PPM Class approved?	

CHAPTER 8 CHAPTER 8

1 CARGO AND BALLAST HANDLING

8.1	Tank Plan	
8.1.1	Tank Plan Diagram	

2 DOUBLE HULL VESSELS

8.2	Is vessel fitted with centreline bulkhead in all cargo tanks?	
8.2.1	If Yes, is bulkhead solid or perforated?	Solid
8.2.2	Is vessel fitted with any full breadth ballast tanks?	Not applicable
8.2.3	If Yes, how many ballast tanks are full breadth?	0
8.2.4	Does vessel meet the IMO definition of 'double hull'?	Yes

3 CARGO TANK CAPACITIES

8.3	Cargo Tank Capacities At 98% Full (M3)	
8.3.1	Centre Tank Number 1 Capacity (98%)	0 Cu Meters
8.3.2	Centre Tank Number 2 Capacity (98%)	0 Cu Meters
8.3.3	Centre Tank Number 3 Capacity (98%)	0 Cu Meters
8.3.4	Centre Tank Number 4 Capacity (98%)	0 Cu Meters
8.3.5	Centre Tank Number 5 Capacity (98%)	0 Cu Meters
8.3.6	Centre Tank Number 6 Capacity (98%)	0 Cu Meters
8.3.7	Centre Tank Number 7 Capacity (98%)	0 Cu Meters
8.3.8	Centre Tank Number 8 Capacity (98%)	0 Cu Meters
8.3.9	Centre Tank Number 9 Capacity (98%)	0 Cu Meters
8.3.10	Centre Tank Number 10 Capacity (98%)	0 Cu Meters
8.3.11	Centre Tank Number 11 Capacity (98%)	0 Cu Meters
8.3.12	Centre Tank Number 12 Capacity (98%)	0 Cu Meters
8.3.13	Centre Tank Number 13 Capacity (98%)	0 Cu Meters
8.3.14	Centre Tank Number 14 Capacity (98%)	0 Cu Meters
8.3.15	Centre Tank Number 15 Capacity (98%)	0 Cu Meters
8.3.16	Wings (P & S combined) Number 1 Capacity (98%)	6655.6 Cu Meters

8.3.17	Wings (P & S combined) Number 2 Capacity (98%)	9227.6 Cu Meters
8.3.18	Wings (P & S combined) Number 3 Capacity (98%)	9378.8 Cu Meters
8.3.19	Wings (P & S combined) Number 4 Capacity (98%)	9378.8 Cu Meters
8.3.20	Wings (P & S combined) Number 5 Capacity (98%)	9362 Cu Meters
8.3.21	Wings (P & S combined) Number 6 Capacity (98%)	8131.2 Cu Meters
8.3.22	Wings (P & S combined) Number 7 Capacity (98%)	0 Cu Meters
8.3.23	Wings (P & S combined) Number 8 Capacity (98%)	0 Cu Meters
8.3.24	Wings (P & S combined) Number 9 Capacity (98%)	0 Cu Meters
8.3.25	Wings (P & S combined) Number 10 Capacity (98%)	0 Cu Meters
8.3.26	Wings (P & S combined) Number 11 Capacity (98%)	0 Cu Meters
8.3.27	Wings (P & S combined) Number 12 Capacity (98%)	0 Cu Meters
8.3.28	Wings (P & S combined) Number 13 Capacity (98%)	0 Cu Meters
8.3.29	Wings (P & S combined) Number 14 Capacity (98%)	0 Cu Meters
8.3.30	Wings (P & S combined) Number 15 Capacity (98%)	0 Cu Meters
8.4	Centre Tank Total Capacity (98%)	0 Cu Meters
8.5	Slops 1st Tank Capacity (98%)	595.2 Cu Meters
8.5.1	Slops 2nd Tank Capacity (98%)	455.4 Cu Meters
8.6	Wings (P & S combined) Total Capacity (98%)	0 Cu Meters
8.7	Slops 3rd tank Capacity (98%)	0 Cu Meters
8.7.1	Slops 4th tank Capacity (98%)	0 Cu Meters
8.8	Centre Tank Total Capacity (98%)	0 Cu Meters
8.9	Wings (P & S combined) Total Capacity (98%)	0 Cu Meters
8.10	Grand Total Capacity (98%)	0 Cu Meters

4 BALLAST TANK CAPACITIES

8.11	Ballast Capacities At 100% Full (M3)	
8.11.1.1	Tank Number 1 (Identity)	F.P.TK
8.11.1.2	Tank Number 1 (Capacity)	1233.3 Cu Meters
8.11.2.1	Tank Number 2 (Identity)	NO.1 PORT AND STBD
8.11.2.2	Tank Number 2 (Capacity)	3172.6 Cu Meters
8.11.3.1	Tank Number 3 (Identity)	NO.2 PORT AND STBD
8.11.3.2	Tank Number 3 (Capacity)	3263.1 Cu Meters
8.11.4.1	Tank Number 4 (Identity)	NO.3 PORT AND STBD
8.11.4.2	Tank Number 4 (Capacity)	3257 Cu Meters
8.11.5.1	Tank Number 5 (Identity)	NO.4 PORT AND STBD
8.11.5.2	Tank Number 5 (Capacity)	3257 Cu Meters
8.11.6.1	Tank Number 6 (Identity)	NO.5 PORT AND STBD
8.11.6.2	Tank Number 6 (Capacity)	3183.1 Cu Meters
8.11.7.1	Tank Number 7 (Identity)	NO.6 PORT AND STBD
8.11.7.2	Tank Number 7 (Capacity)	4143.4 Cu Meters

8.11.8.1	Tank Number 8 (Identity)	A.P.TK
8.11.8.2	Tank Number 8 (Capacity)	732.7 Cu Meters
8.11.9.1	Tank Number 9 (Identity)	
8.11.9.2	Tank Number 9 (Capacity)	0 Cu Meters
8.11.10.1	Tank Number 10 (Identity)	
8.11.10.2	Tank Number 10 (Capacity)	0 Cu Meters
8.11.11.1	Tank Number 11 (Identity)	
8.11.11.2	Tank Number 11 (Capacity)	0 Cu Meters
8.11.12.1	Tank Number 12 (Identity)	
8.11.12.2	Tank Number 12 (Capacity)	0 Cu Meters
8.11.13.1	Tank Number 13 (Identity)	
8.11.13.2	Tank Number 13 (Capacity)	0 Cu Meters
8.11.14	Total Ballast Tank Capacities at 100% full	22242.2 Cu Meters

5 BALLAST HANDLING

8.12	Ballast Handling	
8.12.1	If vessel is a Pre-MARPOL tanker, indicate by tank number, tanks usually designated for departure ballast.	Not applicable
8.12.1.1	Tank Location	
8.12.2	If vessel is a Pre-MARPOL tanker, indicate by tank number, tanks usually designated for arrival ballast.	Not applicable
8.12.2.1	Tank Location	
8.12.3	Can vessel handle cargo and non-segregated ballast concurrently maintaining two valve segregation?	Not applicable
8.12.4	Can dirty ballast be safely loaded with gas transfer method? (simultaneous cargo discharge and loading of ballast into empty tanks)	Not applicable

6 IF VESSEL IS CBT TANKER WITH MANUAL

8.13	If the vessel is a CBT Tanker with Approved Manual:	
8.13.1	Which cargo tanks are indicated as CBT in the IOPP Certificate?	Not applicable
8.13.2	What is total capacity of CBT tanks?	Not applicable
8.13.3	Is the piping for CBT common with cargo piping or independent?	Not applicable

7 IF VESSEL IS SBT TANKER

8.14	If Vessel is SBT Tanker:	
8.14.1	What is total capacity of SBT?	22242.2 Cu Meters
8.14.2	What percentage of summer deadweight can vessel maintain with SBT only?	52 Percent
8.14.3	Does vessel meet the requirements of MARPOL Reg 13 (2)?	Yes

8.14.4	Can segregated ballast be discharged through vessel's manifold?	No
8.14.5	Is vessel equipped with spool piece designed to connect ballast system to cargo system?	Yes
8.14.6	Do cargo lines pass through any dedicated or segregated ballast tanks?	No
8.14.7	If Yes, what type of expansion is fitted?	Not applicable
8.14.8	Do ballast lines pass through any cargo tanks?	No
8.14.9	If Yes, what type of expansion is fitted?	Not applicable
8.14.10	Can vessel pump water ashore for line clearing?	
8.14.11	If Yes, what is maximum attainable discharge rate?	0 Cu Meter/Hour
8.14.12	If Yes, what is maximum acceptable back pressure?	0 Bar
8.14.13	Which cargo tanks are designated for heavy weather ballast as per IMO?	Not applicable
8.14.13.1	Tank Location	Not applicable

8 CARGO HANDLING

8.15	How many grades/products can vessel load/discharge with double valve segregation?	7
8.15.1	How many grades can vessel load/discharge using blank flanges?	7
8.15.2	If vessel is fitted with deepwell pumps and heat exchangers, can pumps and heat exchangers be by-passed during loading?	Not applicable
8.15.3	Is there Oil Discharge Monitoring Equipment (ODME) fitted?	Yes
8.15.4	Is an Oil Discharge Monitoring System connected to the above waterline discharge?	Yes
8.15.5	If yes, is the Oil Discharge Monitoring System designed to automatically stop the discharge of effluent when its oil content exceeds permitted levels?	Yes
8.16	Is vessel equipped with class approved or certified stability computer?	Yes
8.16.1	Does this stability programme consider damaged stability conditions?	Yes
8.17	Is computer integrated with cargo system and equipped with alarm to monitor loading and discharging operations?	Yes

9 CARGO AND BALLAST PUMPING SYSTEMS

8.18.1	Main Pump Number 1 (Identity)	ONE IN EACH CARGO TANK
8.18.2	Main Pump Number 1 (Number)	12
8.18.3	Main Pump Number 1 (Type)	HYDRAULIC DRIVED SUBMERSABLE PUMP (FRAMO)
8.18.4	Main Pump Number 1 (Type of Prime Mover)	
8.18.5	Main Pump Number 1 (Self Priming or Draining)	
8.18.6	Main Pump Number 1 (Capacity)	600 Cu Meter/Hour

8.18.7	Main Pump Number 1 (Normal Back Pressure)	0 Bar
8.18.8	Main Pump Number 1 (At what Head?)	125 Meters
8.18.9	Main Pump Number 1 (Max RPM)	0 RPM
8.19.1	Main Pump Number 2 (Identity)	ONE IN EACH SLOP TANK
8.19.2	Main Pump Number 2 (Number)	2
8.19.3	Main Pump Number 2 (Type)	HYDRAULIC DRIVED SUBMERSABLE PUMP (FRAMO)
8.19.4	Main Pump Number 2 (Type of Prime Mover)	
8.19.5	Main Pump Number 2 (Self Priming or Draining)	
8.19.6	Main Pump Number 2 (Capacity)	300 Cu Meter/Hour
8.19.7	Main Pump Number 2 (Normal Back Pressure)	0 Bar
8.19.8	Main Pump Number 2 (At what Head?)	125 Meters
8.19.9	Main Pump Number 2 (Max RPM)	0 RPM
8.20.1	Main Pump Number 3 (Identity)	
8.20.2	Main Pump Number 3 (Number)	0
8.20.3	Main Pump Number 3 (Type)	
8.20.4	Main Pump Number 3 (Type of Prime Mover)	
8.20.5	Main Pump Number 3 (Self Priming or Draining)	
8.20.6	Main Pump Number 3 (Capacity)	0 Cu Meter/Hour
8.20.7	Main Pump Number 3 (Normal Back Pressure)	0 Bar
8.20.8	Main Pump Number 3 (At what Head?)	0 Meters
8.20.9	Main Pump Number 3 (Max RPM)	0 RPM
8.21.1	Main Pump Number 4 (Identity)	
8.21.2	Main Pump Number 4 (Number)	0
8.21.3	Main Pump Number 4 (Type)	
8.21.4	Main Pump Number 4 (Type of Prime Mover)	
8.21.5	Main Pump Number 4 (Self Priming or Draining)	
8.21.6	Main Pump Number 4 (Capacity)	0 Cu Meter/Hour
8.21.7	Main Pump Number 4 (Normal Back Pressure)	0 Bar
8.21.8	Main Pump Number 4 (At what Head?)	0 Meters
8.21.9	Main Pump Number 4 (Max RPM)	0 RPM
8.22.1	Main Pump Number 5 (Identity)	
8.22.2	Main Pump Number 5 (Number)	0
8.22.3	Main Pump Number 5 (Type)	
8.22.4	Main Pump Number 5 (Type of Prime Mover)	
8.22.5	Main Pump Number 5 (Self Priming or Draining)	
8.22.6	Main Pump Number 5 (Capacity)	0 Cu Meter/Hour
8.22.7	Main Pump Number 5 (Normal Back Pressure)	0 Bar
8.22.8	Main Pump Number 5 (At what Head?)	0 Meters
8.22.9	Main Pump Number 5 (Max RPM)	0 RPM

8.23.1	Main Pump Number 6 (Identity)	
8.23.2	Main Pump Number 6 (Number)	0
8.23.3	Main Pump Number 6 (Type)	
8.23.4	Main Pump Number 6 (Type of Prime Mover)	
8.23.5	Main Pump Number 6 (Self Priming or Draining)	
8.23.6	Main Pump Number 6 (Capacity)	0 Cu Meter/Hour
8.23.7	Main Pump Number 6 (Normal Back Pressure)	0 Bar
8.23.8	Main Pump Number 6 (At what Head?)	0 Meters
8.23.9	Main Pump Number 6 (Max RPM)	0 RPM
8.24.1	Main Pump Number 7 (Identity)	
8.24.2	Main Pump Number 7 (Number)	0
8.24.3	Main Pump Number 7 (Type)	
8.24.4	Main Pump Number 7 (Type of Prime Mover)	
8.24.5	Main Pump Number 7 (Self Priming or Draining)	
8.24.6	Main Pump Number 7 (Capacity)	0 Cu Meter/Hour
8.24.7	Main Pump Number 7 (Normal Back Pressure)	0 Bar
8.24.8	Main Pump Number 7 (At what Head?)	0 Meters
8.24.9	Main Pump Number 7 (Max RPM)	0 RPM
8.25.1	Main Pump Number 8 (Identity)	
8.25.2	Main Pump Number 8 (Number)	0
8.25.3	Main Pump Number 8 (Type)	
8.25.4	Main Pump Number 8 (Type of Prime Mover)	
8.25.5	Main Pump Number 8 (Self Priming or Draining)	
8.25.6	Main Pump Number 8 (Capacity)	0 Cu Meter/Hour
8.25.7	Main Pump Number 8 (Normal Back Pressure)	0 Bar
8.25.8	Main Pump Number 8 (At what Head?)	0 Meters
8.25.9	Main Pump Number 8 (Max RPM)	0 RPM
8.26.1	Booster Pumps (Number)	0
8.26.2	Booster Pumps (Type)	
8.26.3	Booster Pumps (Type of Prime mover)	
8.26.4	Booster Pumps (Capacity) (water)	0 Cu Meter/Hour
8.26.5	Booster Pumps (Normal Back Pressure)	0 Bar
8.26.6	Booster Pumps (At what Head?)	0 Meters
8.26.7	Booster Pumps (RPM)	0 RPM
8.26.8	Booster Pumps (Max RPM)	0 RPM
8.27.1	Stripping (Number)	0
8.27.2	Stripping (Type)	
8.27.3	Stripping (Type of Prime Mover)	
8.27.4	Stripping (Capacity)	0 Cu Meter/Hour

8.27.5	Stripping (Normal Back Pressure)	0 Bar
8.27.6	Stripping (At what Head?)	0 Meters
8.28.1	Eductors (Number)	0
8.28.2	Eductors (Type)	
8.28.3	Eductors (Type of Prime Mover)	
8.28.4	Eductors(Capacity)	0 Cu Meter/Hour
8.28.5	Eductors(Normal Back Pressure)	0 Bar
8.28.6	Eductors(At what Head?)	0 Meters
8.29.1	Ballast Handling Main Pump (Number)	2
8.29.2	Ballast Handling Main Pump (Type)	HYDRAULIC DRIVED SUBMERSABLE PUMP (FRAMO)
8.29.3	Ballast Handling Main Pump (Type of Prime Mover)	
8.29.4	Ballast Handling Main Pump (Capacity)	900 Cu Meter/Hour
8.29.5	Ballast Handling Main Pump (Normal Back Pressure)	0 Bar
8.29.6	Ballast Handling Main Pump (At what Head?)	25 Meters
8.29.7	Ballast Handling Main Pump (Max RPM)	0 RPM
8.30.1	Ballast Handling Stripping (Number)	0
8.30.2	Ballast Handling Stripping (Type)	
8.30.3	Ballast Handling Stripping (Type of Prime Mover)	
8.30.4	Ballast Handling Stripping (Capacity)	0 Cu Meter/Hour
8.30.5	Ballast Handling Stripping (At what Head?)	0 Bar
8.31.1	Ballast Handling Eductors (Number)	1
8.31.2	Ballast Handling Eductors (Type)	KUK DONG IND EMG
8.31.3	Ballast Handling Eductors (Type of Prime Mover)	
8.31.4	Ballast Handling Eductors (Capacity)	175 Cu Meter/Hour
8.31.5	Ballast Handling Eductors (At what Head?)	25 Bar
8.32	Is vessel fitted with dedicated stripping lines and pumps?	No
8.33	State location of cargo pump emergency stops (i)	CCR- NEAR PORT & STBD MANIFOLD- HYD.POWER PACK ROOM ENTRANCE
8.34	State location of cargo pump emergency stops (ii)	
8.35	State location of cargo pump emergency stops (iii)	
8.36	State location of cargo pump emergency stops (iv)	
8.37	State location of cargo pump emergency stops (v)	
8.38.1	Are bearings of cargo pumps fitted with high temperature alarms?	Not applicable
8.38.2	Are bearings of cargo pumps fitted with high temperature trips?	Not applicable
8.39.1	Are bearings of ballast pumps fitted with high temperature alarms?	Not applicable
8.39.2	Are bearings of ballast pumps fitted with high temperature trips?	Not applicable

8.40.1	Are casings of cargo pumps fitted with high temperature alarms?	Not applicable
8.40.2	Are casings of cargo pumps fitted with high temperature trips?	Not applicable
8.41.1	Are casings of ballast pumps fitted with high temperature alarms?	Not applicable
8.41.2	Are casings of ballast pumps fitted with high temperature trips?	Not applicable
8.42.1	Are pumproom shaft glands through bulkheads fitted with high temperature alarms?	Not applicable
8.42.2	Are pumproom shaft glands through bulkheads fitted with high temperature trips?	Not applicable
8.43	What is the principal type of cargo valve?	BUTTERFLY VALVE
8.44	What type of cargo valve actuator is fitted?	HYDRAULIC OPERATED ACTUATOR

10 CARGO CONTROL ROOM

8.45	Is ship fitted with a Cargo Control Room? (CCR)	Yes
8.46	Can cargo and ballast pumps be controlled from the CCR?	Yes
8.47	Can all valves be controlled from the CCR?	No
8.48	Can tank innage/ullage be read from the CCR?	Yes
8.49	Is ODME readout fitted in the CCR?	Yes
8.50	Can the IGS be controlled from the CCR?	Yes

11 GAUGING AND SAMPLING

8.51	Can vessel operate under closed loading conditions in accordance with Section 7.6.3 of ISGOTT?	Yes
8.51.1	What type of fixed closed tankgauging system is fitted?	RADAR TRANS
8.52	Does tank gauging system have local reading?	No
8.52.1	Is gauging system certified and calibrated?	Yes
8.52.2	If it is a portable system does the sounding pipe extend to full tank depth?	Yes
8.53	Are bunker tanks fitted with a full depth gauging system?	Yes
8.54	Are high level alarms fitted?	Yes
8.54.1	If Yes, indicate whether to all tanks or partial?	All
8.54.2	Are high level alarms independent of the gauging system?	Yes
8.55	Are bunker tanks fitted with high level alarms?	Yes
8.56	If Yes, are bunker tank high level alarms part of the primary tank gauging system?	Yes
8.57	Are closed sampling devices on board?	Yes
8.58	Are cargo tanks fitted with dipping points as per IMO Res 497 4.4.4?	Yes

8.59	If portable equipment for gauging uses vapour locks, are vapour locks calibrated?	Yes
8.59.1	If Yes, by whom are vapour locks calibrated?	MAKER
8.59.2	If Yes, by whom are vapour locks certified?	CLASS
8.60	If portable equipment used for gauging who is manufacturer?	MMC
8.60.1	If portable equipment used for gauging how many units are supplied?	1
8.60.2	What is the name of the manufacturer of the vapour locks?	MMC
8.61	What is the nominal (internal) diameter of the vapour lock?	50 Millimeters
8.61.1	To what standard is the thread of the vapour lock manufactured?	2"
8.61.2	Can vapour lock be used for ullaging?	Yes
8.61.3	Can vapour lock be used for temperature?	Yes
8.61.4	Can vapour lock be used for interface?	Yes
8.61.5	Can vapour lock be used for cargo sampling?	Yes
8.61.6	If the vapour lock can be used for cargo sampling, what is the volume of the sample that can be drawn?	0.5 L
8.62	Specify portable equipment for checking oil/water interface	MMC SONIC TYPE (N-2401-2)
8.63	Can cargo samples be taken at the manifold?	Yes
8.64	What is the means of taking cargo temperatures?	REMOTE & PORTABLE

12 VAPOUR EMISSION CONTROL

8.65	Is a vapour return system fitted?	Yes
8.65.6	If fitted, is vapour line return manifold in compliance with OCIMF Guidelines?	Yes
8.66	Is vessel certified for vapour transfer?	Yes
8.66.1	If yes, by which organisation?	LLOYDS

13 VENTING

8.67	State what type of venting system is fitted	HIGH VELOCITY P/V VALVE
8.68	State maximum venting capacity	771 Cu Meter/Hour
8.69	State P/V valve opening pressure	2000 MM/WG
8.70	State P/V valve vacuum setting	-350 MM/WG
8.71	Does each tank have isolating valve?	Yes
8.72	Are cargo tanks fitted with full flow P/V valves without isolating valves between the P/V valve and tank?	Yes
8.73	Is there a means of measuring the pressure in the vapour space in each cargo tank?	Yes
8.74	Is venting through a mast riser?	No
8.75	Are mast risers fitted with high velocity vents?	Yes
8.76	If Yes, state opening pressure	2000 MM/WG

8.77	State vacuum setting of mast riser	-350 MM/WG
8.78	State throughput capacity of mast riser.	771 Cu Meter/Hour
8.79	What is the maximum loading rate for homogenous cargo?	3600 Cu Meter/Hour

14 CARGO MANIFOLDS

8.80	Does vessel comply with the latest edition of the OCIMF 'Recommendations for Oil Tanker Manifolds and Associated Equipment'?	Yes
8.81	What type of valves are fitted at manifold?	BUTTERFLY VALVE
8.82	If hydraulic valves fitted, what are closing times?	36 Seconds
8.83	What is the number of cargo connections per side?	7
8.84	What is the size of cargo connections?	300 Millimeters
8.85	Are pressure gauges fitted outboard of manifold valves?	Yes
8.86	What is the material of the manifold?	SUS316L
8.87	Is the vessel fitted with a crossover at the manifold?	Yes
8.88	Are manifold cross-connections made by hard or flexible piping? (chemical carriers)	Not applicable

15 BUNKER MANIFOLDS

8.89	What is the number of bunker connections per side?	2
8.90	What is the size of the bunker connection?	150 Millimeters

16 MANIFOLD ARRANGEMENT

8.91	Manifold Arrangement Diagram	
8.92	Distance A bunker manifold to cargo manifold	2000 Millimeters
8.93	Distance B cargo manifold to cargo manifold	2000 Millimeters
8.94	Distance C cargo manifold to vapour return manifold	4000 Millimeters
8.95	Distance D manifolds to ship's rail	4595 Millimeters
8.96	Distance E spill tank grating to centre of manifold	900 Millimeters
8.97	Distance F main deck to centre of manifold	2100 Millimeters
8.98	Distance G maindeck to top of rail	1400 Millimeters
8.99	Distance H top of rail to centre of manifold	700 Millimeters
8.100	Distance J manifold to ship side	4600 Millimeters
8.101	What is the height of the manifold connections above the waterline at loaded (Summer Deadweight) condition?	8.7 Meters
8.102	What is the height of the manifold connections above the waterline in normal ballast?	14.25 Meters
8.103	What is the distance between the keel and centre of manifold?	20.9 Meters
8.104	Is vessel fitted with a stern manifold?	Not applicable
8.104.1	If stern manifold fitted, state size	Not applicable

8.105	Is vessel fitted with a bow manifold?	Not applicable
8.105.1	If bow manifold fitted, state size	Not applicable
8.106.1	Number of Reducers carried	2
8.106.2	From Diameter	200 Millimeters
8.106.3	To Diameter	400 Millimeters
8.107.1	Number of Reducers carried	12
8.107.2	From Diameter	300 Millimeters
8.107.3	To Diameter	400 Millimeters
8.108.1	Number of Reducers carried	6
8.108.2	From Diameter	400 Millimeters
8.108.3	To Diameter	400 Millimeters
8.109.1	Number of Reducers carried	6
8.109.2	From Diameter	250 Millimeters
8.109.3	To Diameter	300 Millimeters
8.110.1	Number of Reducers carried	6
8.110.2	From Diameter	300 Millimeters
8.110.3	To Diameter	200 Millimeters
8.111	To what standard are manifold reducers manufactured? (ANSI, ASA, BSI, DIN, JIS, etc.)	ANSI

17 GAS MONITORING

8.112	Is the vessel fitted with a fixed system to continuously monitor for flammable atmospheres?	Yes
8.112.1	What spaces are monitored?	UPPER STOOL, W.B.TANKS, FORE VOID, F.P. TANK
8.113	Where are sensors/sampling points located in pumproom?	IN CC
8.113.1	Are sensors/sampling points calibrated/tested?	Yes
8.113.2	Who is responsible for testing sensors/sampling points?	MAKER
8.114.1	Portable and Personal gas detection equipment carried Item Number 1 (Name)	RIKEN KEIKI GX 2009
8.114.2	Portable and Personal gas detection equipment carried Item Number 1 (Number of units)	4
8.115.1	Portable and Personal gas detection equipment carried Item Number 2 (Name)	RIKEN KEIKE RX 517
8.115.2	Portable and Personal gas detection equipment carried Item Number 2 (Number of units)	2
8.116.1	Portable and Personal gas detection equipment carried Item Number 3 (Name)	GASTEC TUBE
8.116.2	Portable and Personal gas detection equipment carried Item Number 3 (Number of units)	1
8.117.1	Portable and Personal gas detection equipment carried Item Number 4 (Name)	Not applicable
8.117.2	Portable and Personal gas detection equipment carried Item Number 4 (Number of units)	Not applicable

8.118.1	Portable and Personal gas detection equipment carried Item Number 5 (Name)	Not applicable
8.118.2	Portable and Personal gas detection equipment carried Item Number 5 (Number of units)	Not applicable
8.119.1	Portable and Personal gas detection equipment carried Item Number 6 (Name)	Not applicable
8.119.2	Portable and Personal gas detection equipment carried Item Number 6 (Number of units)	Not applicable

18 CARGO HEATING

8.120	Are there coils in cargo tanks?	Yes
8.121	State the Number of independent sets of coils per tank	3
8.122	Are all tanks coiled?	Yes
8.123	What is the Height of coils above tank bottom?	200 Millimeters
8.124.1	Heating surface per tank	0 Square Meters
8.124.2	Heating surface per tank volume ratio	
8.125	Are heating coils welded or coupled?	Welded
8.126	Are heat exchangers external to cargo tanks?	No
8.127	Are there external ducts?	
8.128	What is the Material of heating coils?	
8.129	Inlet heating medium to coils	Steam
8.130.1	With Sea temperature	5 Degrees C
8.130.2	With air temperature	2 Degrees C
8.131	Heating agent	Steam
8.132	Number of heaters	0
8.133.1	Able to raise temperature from	44 Degrees C
8.133.2	Able to raise temperature to	66 Degrees C
8.133.3	Time taken to raise temperature	0 Hours
8.134	Total capacity of boilers	18000 KCal

CHAPTER 9 CHAPTER 9

1 INERT GAS AND CRUDE OIL WASHING

9.1	Is an inert gas system (IGS) fitted? (If No, ignore remainder of this section)	Yes
9.2	Is a P/V breaker fitted?	Yes
9.3	Is IGS supplied by flue gas, inert gas (IG) generator and/or nitrogen?	IG Generator
9.4	Are fixed O2 alarms fitted in inert gas generating spaces?	Yes
9.5	What is the capacity of the IGS?	4500 Cu Meter/Hour
9.6	How many fans does it have?	2
9.7	What is the total combined fan capacity?	4500 Cu Meter/Hour

9.8	Is a top-up IG generator fitted?	No
9.8.1	If Yes, what is its capacity?	0 Cu Meter/Hour
9.9	Is an IGS operating manual on board?	Yes
9.10	What type of deck seal is fitted?	SEMI-WATER
9.11	How many segregations does the IGS have?	0
9.12	What method is used to isolate individual tanks?	VALVE WITH SPECTACLE FLANGE
9.13	What type of non-return valve is fitted?	FLAT CHECK
9.14	What means of protection is fitted, other than minimum thermal variation P/V valves, if tanks can be individually isolated from the IG ?	
9.15	If ship has double hull or sides, are facilities available to inert ballast tanks and other void spaces?	Yes
9.15.1	Can these tanks/spaces be purged with air?	Yes
9.16	Where is the location of the emergency IGS connection?	NEAR MANIFOLD PORT SIDE
9.16.1	What is the size of the emergency IGS connection?	300 Millimeters
9.17	Is a Crude Oil Washing (COW) installation fitted? (If No, ignore remainder of this section)	Yes
9.18	Are COW drive units fixed or portable?	Fixed
9.19	Are COW drive units programmable?	Yes
9.20	Is vessel capable of performing COW at the same time as cargo discharge?	Yes
9.21	Is there an approved COW Manual on board?	Yes
9.22	What is the working pressure of the COW lines?	12 Bar

CHAPTER 10 CHAPTER 10

1 MOORING

10.1	Does the vessel comply with the latest edition of OCIMF Mooring Equipment Guidelines?	Yes

2 MOORING WIRES (ON DRUMS)

10.2.1	Mooring Wires (On Drums) Forecastle (Number)	4
10.2.2	Mooring Wires (On Drums) Forecastle (Diameter)	28 Millimeters
10.2.3	Mooring Wires (On Drums) Forecastle (Material)	GALVANIZED STEEL
10.2.4	Mooring Wires (On Drums) Forecastle (Length)	220 Meters
10.2.5	Mooring Wires (On Drums) Forecastle (Breaking Strength)	54.4 Tonnes
10.3.1	Mooring Wires (On Drums) Forward Main Deck (Number)	4
10.3.2	Mooring Wires (On Drums) Forward Main Deck (Diameter)	28 Millimeters
10.3.3	Mooring Wires (On Drums) Forward Main Deck (Material)	GALVANIZED STEEL

10.3.4	Mooring Wires (On Drums) Forward Main Deck (Length)	220 Meters
10.3.5	Mooring Wires (On Drums) Forward Main Deck (Breaking Strength)	54.4 Tonnes
10.4.1	Mooring Wires (On Drums) Aft Main Deck (Number)	2
10.4.2	Mooring Wires (On Drums) Aft Main Deck (Diameter)	28 Millimeters
10.4.3	Mooring Wires (On Drums) Aft Main Deck (Material)	GALVANIZED STEEL
10.4.4	Mooring Wires (On Drums) Aft Main Deck (Length)	220 Meters
10.4.5	Mooring Wires (On Drums) Aft Main Deck (Breaking Strength)	54.4 Tonnes
10.5.1	Mooring Wires (On Drums) Poop (Number)	6
10.5.2	Mooring Wires (On Drums) Poop (Diameter)	28 Millimeters
10.5.3	Mooring Wires (On Drums) Poop (Material)	GALVANIZED STEEL
10.5.4	Mooring Wires (On Drums) Poop (Length)	220 Meters
10.5.5	Mooring Wires (On Drums) Poop (Breaking Strength)	54.4 Tonnes

3 MOORING WIRE TAILS

10.6	Type of shackle	Mandel
10.7.1	Mooring Wire Tails Forecastle (Number)	4
10.7.2	Mooring Wire Tails Forecastle (Diameter)	64 Millimeters
10.7.3	Mooring Wire Tails Forecastle (Material)	NYLON
10.7.4	Mooring Wire Tails Forecastle (Length)	11 Meters
10.7.5	Mooring Wire Tails Forecastle (Breaking Strength)	68.9 Tonnes
10.8.1	Mooring Wire Tails Forward Main Deck (Number)	4
10.8.2	Mooring Wire Tails Forward Main Deck (Diameter)	64 Millimeters
10.8.3	Mooring Wire Tails Forward Main Deck (Material)	NYLON
10.8.4	Mooring Wire Tails Forward Main Deck (Length)	11 Meters
10.8.5	Mooring Wire Tails Forward Main Deck (Breaking Strength)	68.9 Tonnes
10.9.1	Mooring Wire Tails Aft Main Deck (Number)	2
10.9.2	Mooring Wire Tails Aft Main Deck (Diameter)	64 Millimeters
10.9.3	Mooring Wire Tails Aft Main Deck (Material)	NYLON
10.9.4	Mooring Wire Tails Aft Main Deck (Length)	11 Meters
10.9.5	Mooring Wire Tails Aft Main Deck (Breaking Strength)	68.9 Tonnes
10.10.1	Mooring Wire Tails Poop (Number)	6
10.10.2	Mooring Wire Tails Poop (Diameter)	64 Millimeters
10.10.3	Mooring Wire Tails Poop (Material)	NYLON
10.10.4	Mooring Wire Tails Poop (Length)	11 Meters
10.10.5	Mooring Wire Tails Poop (Breaking Strength)	68.9 Tonnes

4 MOORING ROPES (ON DRUMS)

10.11.1	Mooring Ropes (On Drums) Forecastle (Number)	Not applicable

10.11.2	Mooring Ropes (On Drums) Forecastle (Diameter)	Not applicable
10.11.3	Mooring Ropes (On Drums) Forecastle (Material)	Not applicable
10.11.4	Mooring Ropes (On Drums) Forecastle (Length)	Not applicable
10.11.5	Mooring Ropes (On Drums) Forecastle (Breaking Strength)	Not applicable
10.12.1	Mooring Ropes (On Drums) Forward Main Deck (Number)	Not applicable
10.12.2	Mooring Ropes (On Drums) Forward Main Deck (Diameter)	Not applicable
10.12.3	Mooring Ropes (On Drums) Forward Main Deck (Material)	Not applicable
10.12.4	Mooring Ropes (On Drums) Forward Main Deck (Length)	Not applicable
10.12.5	Mooring Ropes (On Drums) Forward Main Deck (Breaking Strength)	Not applicable
10.13.1	Mooring Ropes (On Drums) Aft Main Deck (Number)	Not applicable
10.13.2	Mooring Ropes (On Drums) Aft Main Deck (Diameter)	Not applicable
10.13.3	Mooring Ropes (On Drums) Aft Main Deck (Material)	Not applicable
10.13.4	Mooring Ropes (On Drums) Aft Main Deck (Length)	Not applicable
10.13.5	Mooring Ropes (On Drums) Aft Main Deck (Breaking Strength)	Not applicable
10.14.1	Mooring Ropes (On Drums) Poop (Number)	Not applicable
10.14.2	Mooring Ropes (On Drums) Poop (Diameter)	Not applicable
10.14.3	Mooring Ropes (On Drums) Poop (Material)	Not applicable
10.14.4	Mooring Ropes (On Drums) Poop (Length)	Not applicable
10.14.5	Mooring Ropes (On Drums) Poop (Breaking Strength)	Not applicable

5 OTHER MOORING LINES

10.15.1	Other Mooring Lines Forecastle (Number)	Not applicable
10.15.2	Other Mooring Lines Forecastle (Diameter)	Not applicable
10.15.3	Other Mooring Lines Forecastle (Material)	Not applicable
10.15.4	Other Mooring Lines Forecastle (Length)	Not applicable
10.15.5	Other Mooring Lines Forecastle (Breaking Strength)	Not applicable
10.16.1	Other Mooring Lines Forward Main Deck (Number)	Not applicable
10.16.2	Other Mooring Lines Forward Main Deck (Diameter)	Not applicable
10.16.3	Other Mooring Lines Forward Main Deck (Material)	Not applicable
10.16.4	Other Mooring Lines Forward Main Deck (Length)	Not applicable
10.16.5	Other Mooring Lines Forward Main Deck (Breaking Strength)	Not applicable
10.17.1	Other Mooring Lines Aft Main Deck (Number)	Not applicable
10.17.2	Other Mooring Lines Aft Main Deck (Diameter)	Not applicable
10.17.3	Other Mooring Lines Aft Main Deck (Material)	Not applicable
10.17.4	Other Mooring Lines Aft Main Deck (Length)	Not applicable

10.17.5	Other Mooring Lines Aft Main Deck (Breaking Strength)	Not applicable
10.18.1	Other Mooring Lines Poop (Number)	Not applicable
10.18.2	Other Mooring Lines Poop (Diameter)	0 Millimeters
10.18.3	Other Mooring Lines Poop (Material)	Not applicable
10.18.4	Other Mooring Lines Poop (Length)	Not applicable
10.18.5	Other Mooring Lines Poop (Breaking Strength)	Not applicable

6 SPARE MOORING WIRES

10.19.1	Spare Mooring Wires (Identity 1)	Not applicable
10.19.2	Number (Identity 1)	Not applicable
10.19.3	Diameter (Identity 1)	Not applicable
10.19.4	Material (Identity 1)	Not applicable
10.19.5	Length (Identity 1)	Not applicable
10.19.6	Breaking Strength (Identity 1)	Not applicable
10.19.1.1	Spare Mooring Wires (Identity 2)	Not applicable
10.19.1.2	Number (Identity 2)	Not applicable
10.19.1.3	Diameter (Identity 2)	Not applicable
10.19.1.4	Material (Identity 2)	Not applicable
10.19.1.5	Length (Identity 2)	Not applicable
10.19.1.6	Breaking Strength (Identity 2)	Not applicable

7 SPARE MOORING ROPES

10.20.1	Spare Mooring Ropes (Identity 1)	Not applicable
10.20.2	Number (Identity 1)	Not applicable
10.20.3	Diameter (Identity 1)	Not applicable
10.20.4	Material (Identity 1)	Not applicable
10.20.5	Length (Identity 1)	Not applicable
10.20.6	Breaking Strength (Identity 1)	Not applicable
10.20.1.1	Spare Mooring Ropes (Identity 2)	Not applicable
10.20.1.2	Number (Identity 2)	Not applicable
10.20.1.3	Diameter (Identity 2)	Not applicable
10.20.1.4	Material (Identity 2)	Not applicable
10.20.1.5	Length (Identity 2)	Not applicable
10.20.1.6	Breaking Strength (Identity 2)	Not applicable

8 SPARE MOORING TAILS

10.21.1	Spare Mooring Tails (Identity 1)	9285, 9289, 9291, 9292, 9293, 9295
10.21.2	Number (Identity 1)	6
10.21.3	Diameter (Identity 1)	64 Millimeters
10.21.4	Material (Identity 1)	ESTALON KARAT MAXI

10.21.5	Length (Identity 1)	11 Meters
10.21.6	Breaking Strength (Identity 1)	78.4 Tonnes
10.21.1.1	Spare Mooring Tails (Identity 2)	Not applicable
10.21.1.2	Number (Identity 2)	Not applicable
10.21.1.3	Diameter (Identity 2)	Not applicable
10.21.1.4	Material (Identity 2)	Not applicable
10.21.1.5	Length (Identity 2)	Not applicable
10.21.1.6	Breaking Strength (Identity 2)	Not applicable

9 MOORING WINCHES

10.22.1	Forecastle (Number)	2
10.22.2	Forecastle (Single Drum or Double Drums)	DOUBLE
10.22.3	Forecastle (Split Drums Y/N)	Yes
10.22.4	Forecastle (Motive Power)	HYDRAULIC
10.22.5	Forecastle (Heaving Power)	16 Tonnes
10.22.6	Forecastle (Brake Capacity)	30.6 Tonnes
10.22.7	Forecastle (Hauling Speed)	15 Meters/Minute
10.23.1	Forward Main Deck (Number)	2
10.23.2	Forward Main Deck (Single Drum or Double Drums)	DOUBLE
10.23.3	Forward Main Deck (Split Drums Y/N)	Yes
10.23.4	Forward Main Deck (Motive Power)	HYDRAULIC
10.23.5	Forward Main Deck (Heaving Power)	16 Tonnes
10.23.6	Forward Main Deck (Brake Capacity)	30.6 Tonnes
10.23.7	Forward Main Deck (Hauling Speed)	15 Meters/Minute
10.24.1	Aft Main Deck (Number)	1
10.24.2	Aft Main Deck (Single Drum or Double Drums)	DOUBLE
10.24.3	Aft Main Deck (Split Drums Y/N)	Yes
10.24.4	Aft Main Deck (Motive Power)	HYDRAULIC
10.24.5	Aft Main Deck (Heaving Power)	16 Tonnes
10.24.6	Aft Main Deck (Brake Capacity)	30.6 Tonnes
10.24.7	Aft Main Deck (Hauling Speed)	15 Meters/Minute
10.25.1	Poop (Number)	3
10.25.2	Poop (Single Drum or Double Drums)	DOUBLE
10.25.3	Poop (Split Drums Y/N)	Yes
10.25.4	Poop (Motive Power)	HYDRAULIC
10.25.5	Poop (Heaving Power)	16 Tonnes
10.25.6	Poop (Brake Capacity)	30.6 Tonnes
10.25.7	Poop (Hauling Speed)	15 Meters/Minute
10.26	What type of winch brakes are fitted?	HAND OPERATED FRICTION BRAKE BAND
10.27	Is brake testing equipment on board?	Yes

10.28	When were the brakes last tested?	30 April 2010

10 MOORING BITTS

10.29	How many sets of mooring bitts are fitted on forecastle?	4
10.30	How many sets of mooring bitts are fitted on forward main deck?	4
10.31	How many sets of mooring bitts are fitted on aft main deck?	2
10.32	How many sets of mooring bitts are fitted on poop deck?	10
10.33	Distance of mooring chock for breast/spring lines forward of center of manifold	40 Meters
10.34	Distance of mooring chock for breast/spring lines aft of center of manifold	38 Meters

11 ANCHORS AND WINDLASS

10.35	What is the motive power of the windlass?	25.3 TONS X 9 M/MIN
10.36	What is the cable diameter?	73 Millimeters
10.37	Number of shackles - port cable?	12
10.38	Number of shackles - starboard cable?	11
10.39	Are bitter end connections to both cables capable of being slipped?	Yes

12 EMERGENCY TOWING ARRANGEMENTS

10.40	Is the vessel fitted with an Emergency Towing Arrangement? If no, ignore remainder of this section.	Yes
10.41.1	Type of system (Forward)	TONGUE TYPE BOW STOPPER
10.41.2	Type of system (Aft)	AIR MOTOR DRIVEN WINCH SYSTEM
10.42.1	Safe Working Load (SWL) of system (Forward)	200 Tonnes
10.42.2	Safe Working Load (SWL) of system (Aft)	100 Tonnes
10.43.1	Is pick-up gear provided? (Forward)	Not applicable
10.43.2	Is pick-up gear provided? (Aft)	Yes
10.44.1	Towing pennant length (Forward)	Not applicable
10.44.2	Towing pennant length (Aft)	76 Meters
10.45.1	Towing pennant diameter (Forward)	Not applicable
10.45.2	Towing pennant diameter (Aft)	63 Millimeters
10.46.1	Type of strong point (Smit bracket etc) (Forward)	TONGUE
10.46.2	Type of strong point (Smit bracket etc) (Aft)	FAIRLEAD WITH C TYPE SOCKET
10.47.1	Chafing chain size (Forward)	76 Millimeters
10.47.2	Chafing chain size (Aft)	Not applicable
10.48.1	Fairlead size (in format ABCmm x XYZmm) (Forward)	600 X 450
10.48.2	Fairlead size (in format ABCmm x XYZmm) (Aft)	1060 X 470 X 695
10.49.1	Is pedestal roller fitted? (Forward)	Yes

10.49.2	Is pedestal roller fitted? (Aft)	Yes
10.50.1	Is vessel provided with towing wire? (Forward)	Not applicable
10.50.2	Is vessel provided with towing wire? (Aft)	Not applicable
10.50.1.1	If Yes, what is the diameter of towing wire? (Forward)	Not applicable
10.50.1.2	If Yes, what is the diameter of towing wire? (Aft)	Not applicable
10.50.2.1	If Yes, what is the length of towing wire? (Forward)	Not applicable
10.50.2.2	If Yes, what is the length of towing wire? (Aft)	Not applicable
10.52	What is the number of bitts in the bow area?	2
10.53	What is the height of the bitts in the bow area?	730 Millimeters
10.54	What is the safe working load of the bitts in the bow area?	64 Tonnes
10.55	What is the distance between bow fairleads and nearest bitts?	2400 Millimeters
10.56	Is the bow area clear of any obstructions which would hamper towing connections?	Yes

13 ESCORT TUG

10.57	SWL of closed chock on stern	100 Tonnes
10.58	SWL of bollard on poopdeck suitable for escort tug	100 Tonnes
10.59	Are stern chock and bollard capable of towing astern to 90 degrees?	Yes

14 SINGLE POINT MOORING (SPM) EQUIPMENT

10.60	Does vessel comply with the latest edition of OCIMF 'Recommendations for Equipment Employed in the Mooring of Vessels at Single Point Moorings (SPM)'?	Yes
10.61	Is vessel fitted with chain stopper(s)?	Yes
10.61.1	If Yes, how many?	1
10.61.2	If Yes, state type	TONGUE
10.61.3	If Yes, what is the Safe Working Load (SWL)?	200 Tonnes
10.62	What is the maximum size chain diameter the bow stopper(s) can handle?	76 Millimeters
10.63	Are closed fairleads of OCIMF recommended size (600mm x 450mm)?	Yes
10.63.1	If not, give details of size (in format ABCmm x XYZmm)	Not applicable
10.64	If two forward bow fairleads are fitted give distance between them	Not applicable
10.65	What is the distance between the bow fairlead and stopper/bracket?	3000 Millimeters
10.66	What is the distance from the stopper bracket to roller lead/winch drum?	3 Meters
10.67	Is there a direct lead from the bow stopper to the winch drum (not the warping end)?	Not applicable
10.68	Is the winch storage drum capable of safely accommodating 150m X 80mm fibre pick up rope?	Yes

10.69	Is the winch storage drum capable of safely accommodating 200m X 80mm fibre pick up rope?	Not applicable

15 BOW MOORING ARRANGEMENT DIAGRAM

10.70	Bow Mooring Arrangement Diagram	Not applicable

16 MANIFOLD ARRANGEMENT

10.71	Manifold Arrangement Diagram	Not applicable
10.72	Distance K end of drip tray to center line of deck cleat	2450 Millimeters
10.73	Distance L spill tray to centre line of bollard	1290 Millimeters
10.74	Distance M length of bollard	595 Millimeters

17 LIFTING EQUIPMENT

10.75	How many derricks does the vessel have?	Not applicable
10.75.1	What is their safe working load (SWL)?	Not applicable
10.75.2	Date last tested	Not applicable
10.76	If cranes are fitted, how many?	1
10.76.1	What is their safe working load (SWL)?	10 Tonnes
10.76.2	Date last tested	
10.77	Is Safe Working Load (SWL) clearly marked on all lifting equipment?	Yes
10.78	Do the vessel's derricks or cranes reach at least 1 metre outboard of rail?	Yes
10.79	How many bitts are there on each side of the manifold for tying off submarine hoses?	6

18 OTHER EQUIPMENT

10.80	Are accommodation ladders arranged to face aft when rigged?	Yes
10.81	Does vessel have Suez Canal boat davits?	
10.82	Does vessel have Suez Canal projector?	Yes

CHAPTER 11 CHAPTER 11

1 COMMUNICATIONS AND ELECTRONICS

11.1	Is vessel certified for GMDSS?	Yes
11.2	What GMDSS areas is the vessel classed for? A1 A2 A3 A4	A3
11.3	Transponder (SART)	Yes
11.4	EPIRB	Yes
11.5	How many VHF radios are fitted on the bridge?	2
11.6	Is vessel fitted with VHF in the cargo control room (CCR)?	Yes
11.7	Is the CCR connected to the vessel's internal communication system?	Yes

11.8	How many intrinsically safe walkie talkies are provided for cargo handling?	6
11.9	Is vessel fitted with an INMARSAT satellite communications system?	Yes
11.10	Does vessel carry at least three survival craft two-way radio telephones?	Yes
11.11	List any other communications equipment carried:	Not applicable
11.12	Can vessel transmit the helicopter homing signal on 410 KHz?	No

CHAPTER 12 CHAPTER 12

1 MAIN PROPULSION

12.1	Means of main propulsion	Motor
12.1.1	If motor state whether two stroke or four stroke	2 Stroke
12.1.2	If four stroke, state how many engines fitted	Not applicable
12.2	Does vessel have single or twin propellers?	Single
12.3	Is vessel fitted with fixed or controllable pitch propeller(s)?	Fixed
12.4	How many boilers are fitted?	1
12.4.1	What is rated output of boilers?	18 Tonnes/Hour
12.5	What type of fuel is used for main propulsion?	HEAVY FUEL OIL
12.6	Are pressurised fuel pipes double sheathed?	Yes
12.7	When moored at SBM, is main engine capable of being run astern at low revolutions for extended periods (up to 24 hours continuously)?	Yes
12.8	Is vessel capable of maintaining speed below 5 Knots?	Yes
12.9	Is vessel fitted for Unmanned Machinery Space (UMS) operation?	Yes
12.9.1	Is vessel operated in UMS mode?	Yes

2 THRUSTERS

12.10	Is vessel fitted with a bow thruster?	No
12.10.1	If Yes, give Brake Horse Power	Not applicable
12.11	Is vessel fitted with a stern thruster?	
12.11.1	If Yes, give Brake Horse Power	0 BHP
12.12	Is vessel fitted with high angle rudder?	
12.12.1	If yes, what type	

3 GENERATORS

12.13	How many power generators are fitted?	3
12.13.1	Indicate type of power generator(s)	4 STROKE DIESEL ENGINE HFC7 506-14K
12.14	What type of fuel is used in the generating plant?	HEAVY FUEL OIL
12.15	Is vessel fitted with emergency generator or batteries?	Emergency generator

4 MAIN ENGINE AIR START COMPRESSORS

12.16	Number of main engine start compressors	2
12.17	Operating pressure	30 Bar
12.18	Motive power of emergency compressor	0 Cu Meter/Hour

5 BUNKERS

12.19.1	Fuel Oil (Tank Name)	NO 1HFO P/S, NO 2HFO P, NO 2 HFO TK S (FOR LOW SULFER HFO) HFO SERVICE, HFO SETTLING, LOW SULFER HFO SETT, LOW SULFER HFO SERV
12.19.2	Fuel Oil (Capacity)	1407.9 Cu Meters
12.19.3	Diesel Oil (Tank Name)	D.O STORAGE P/S, D.O SERV TK P
12.19.4	Diesel Oil (Capacity)	187 Cu Meters
12.19.5	Gas Oil (Tank Name)	Not applicable
12.19.6	Gas Oil (Capacity)	Not applicable
12.20.1	Fuel Oil (Tank Name)	Not applicable
12.20.2	Fuel Oil (Capacity)	Not applicable
12.20.3	Diesel Oil (Tank Name)	Not applicable
12.20.4	Diesel Oil (Capacity)	Not applicable
12.20.5	Gas Oil (Tank Name)	Not applicable
12.20.6	Gas Oil (Capacity)	Not applicable
12.21.1	Fuel Oil (Tank Name)	Not applicable
12.21.2	Fuel Oil (Capacity)	0 Cu Meters
12.21.3	Diesel Oil (Tank Name)	Not applicable
12.21.4	Diesel Oil (Capacity)	Not applicable
12.21.5	Gas Oil (Tank Name)	Not applicable
12.21.6	Gas Oil (Capacity)	Not applicable
12.22.1	Fuel Oil (Tank Name)	Not applicable
12.22.2	Fuel Oil (Capacity)	Not applicable
12.22.3	Diesel Oil (Tank Name)	Not applicable
12.22.4	Diesel Oil (Capacity)	Not applicable
12.22.5	Gas Oil (Tank Name)	Not applicable
12.22.6	Gas Oil (Capacity)	Not applicable
12.23.1	Fuel Oil (Tank Name)	Not applicable
12.23.2	Fuel Oil (Capacity)	Not applicable
12.23.3	Diesel Oil (Tank Name)	Not applicable
12.23.4	Diesel Oil (Capacity)	Not applicable
12.23.5	Gas Oil (Tank Name)	Not applicable
12.23.6	Gas Oil (Capacity)	Not applicable
12.24.1	Fuel Oil (Tank Name)	Not applicable
12.24.2	Fuel Oil (Capacity)	Not applicable

12.24.3	Diesel Oil (Tank Name)	Not applicable
12.24.4	Diesel Oil (Capacity)	Not applicable
12.24.5	Gas Oil (Tank Name)	Not applicable
12.24.6	Gas Oil (Capacity)	Not applicable
12.25.1	Fuel Oil (Tank Name)	Not applicable
12.25.2	Fuel Oil (Capacity)	Not applicable
12.25.3	Diesel Oil (Tank Name)	Not applicable
12.25.4	Diesel Oil (Capacity)	Not applicable
12.25.5	Gas Oil (Tank Name)	Not applicable
12.25.6	Gas Oil (Capacity)	Not applicable

6 STEERING GEAR

12.26	What type of steering gear fitted?	ROTARY WEIN
12.27	How many motorized hydraulic pumps or motors fitted?	0
12.28	How many telemotors fitted?	0
12.29	Is an emergency rudder arrest/rudder control fitted?	

7 ANTI-POLLUTION

12.30	Is an engine-room bilge high level alarm fitted?	Yes
12.31	Is a pump room bilge high level alarm fitted?	Not applicable
12.32	Is there a permanently installed system for the disposal of residues from the machinery space sludge tank to shore?	Yes
12.33	Are there facilities on board to incinerate machinery space sludge?	Yes

CHAPTER 13 CHAPTER 13

1 SHIP TO SHIP TRANSFER

13.1	Does vessel comply with recommendations contained in OCIMF/ICS Ship To Ship Transfer Guide (Petroleum)?	Yes
13.2	Are at least 7 ratings available to assist with mooring operations?	Yes
13.3	What is Safe Working Load (SWL) of bitts in the manifold area?	25 Tonnes
13.4	Are manifold bitts at least 35 metres away from the breastlines leading fore and aft?	Yes
13.5	What is maximum outreach of vessel's cranes or derricks outboard of the ship's side?	7.1 Meters
13.6	Are four (4) 200m x 40mm messenger lines available for Ship-To-Ship (STS) mooring operations?	Yes
13.7	Are there two (2) closed chocks with associated bollards and leads to winches located within 35 metres forward and aft of the centre of the cargo manifold?	Yes

CHAPTER 14 CHAPTER 14

1 CHEMICAL CARRIER INFORMATION

14.1	In the case of a Chemical Carrier carrying oil, does the vessel comply fully with the requirements of MARPOL as per Section 8 of the IOPP Supplement (Form B)?	Not applicable
14.2	Is vessel equipped with an emergency portable cargo pump?	No
14.3	Are independent high level alarms fitted?	No
14.4	Is a tank overflow control system fitted?	No
14.4.1	Are these also fitted to deck tanks?	No
14.5	Are there cargo tank filling restrictions?	No
14.5.1	If yes	
14.5.2	Filling restrictions are	
14.6	Is the ship fitted with a fixed remote reading temperature system?	No
14.7	Is the ship fitted with a fixed remote pressure gauging equipment?	No
14.8	Specify other cargo measurement equipment available	
14.9	Is an Efficient Stripping System fitted?	No
14.9.1	Are independent stripping lines fitted?	No
14.9.2	What is the material of stripping lines?	
14.9.3	What is the diameter of the stripping lines?	0 Millimeters

2 IGS

14.10.1	(IGS) Composition of gas supplied by	
14.10.2	Nitrogen%	0 Percent
14.10.3	Carbon Dioxide %	0 Percent
14.10.4	Oxygen %	0 Percent
14.10.5	Sulphur Dioxide %	0 Percent
14.10.6	Carbon Monoxide %	0 Percent
14.10.7	Oxides of Nitrogen %	0 Percent
14.10.8	Dew Point degrees Celsius	0 Degrees C
14.11.1	(IGS) Composition of gas supplied by	
14.11.2	Nitrogen%	0 Percent
14.11.3	Carbon Dioxide %	0 Percent
14.11.4	Oxygen %	0 Percent
14.11.5	Sulphur Dioxide %	0 Percent
14.11.6	Carbon Monoxide %	0 Percent
14.11.7	Oxides of Nitrogen %	0 Percent
14.11.8	Dew Point degrees Celsius	0 Degrees C

14.12	Is Cargo Tank Drier fitted?	
14.12.1	If yes, manufacturer name	
14.12.2	Capacity	0 Cu Meter/Hour
14.13	Is bottled Nitrogen available for deck use?	
14.14	Is steam available on deck?	Yes

3 TANK CONDITIONING

14.15	Is there a fixed ventilation system?	No
14.15.1	What is the Total capacity?	0 Cu Meter/Hour
14.16	Is the fixed ventilation system fitted with a dehumidifier ?	No
14.16.1	What is the Total capacity?	0 Cu Meter/Hour
14.17	Is there independent piping?	No
14.17.1	Through cargo lines	No
14.17.2	Portable fans	Yes
14.17.3	Number:	2
14.17.4	Type:	
14.17.5	Capacity (one)	0 Cu Meter/Hour
14.18	Are there gas freeing stand pipes?	
14.18.1	Portable:	
14.18.2	Fixed	

4 SAFETY

14.19	Is there Protective equipment for the protection of crew members available as per IBC 14.1.1 / BCH 3.16.1.?	No
14.20	When required by the Chemical Code, is respiratory and eye protection for every person on board available for emergency escape purposes?	
14.21	When required by the Chemical Code, is there on board at least three sets of personnel protection safety equipment (IBC 14.2.1 / BCH 3.16)?	
14.22	Is an Oxygen resuscitator available on board?	Yes
14.23	Are there at least two decontamination showers available on deck?	Yes

5 CARGO AND OTHER MANIFOLDS

14.24	Total number of manifold connections per side	
14.24.1.1	Number (Port)	0
14.24.1.2	Size (Port)	0 Millimeters
14.24.2.1	Number (Starboard)	0
14.24.2.2	Size (Starboard)	0 Millimeters
14.25	Designed Max. loading rate	0 Cu Meter/Hour
14.26	Height of cargo vapour connections above keel	0 Meters

14.27	Located on both sides?	
14.28	Is there an additional connection to cargo system on deck?	
14.28.1	If yes, position (distance from bow)	0 Meters

6 CARGO AND OTHER MANIFOLD DIAGRAM

14.29	Cargo and Other Manifold Diagram	
14.30	Dimension A	0 Millimeters
14.31	Dimension B	0 Millimeters
14.32	Dimension C	0 Millimeters
14.33	Dimension D	0 Millimeters
14.34	Dimension E	0 Millimeters
14.35	Dimension a	0 Millimeters
14.36	Dimension b	0 Millimeters
14.37	Dimension x	0 Millimeters
14.38	Dimension y	0 Millimeters
14.39	Dimension z	0 Millimeters
14.40	Dimension i	0 Meters
14.41	Dimension ii	0 Millimeters
14.42	Dimension iii	0 Millimeters

7 CARGO TANK PARTICULARS

14.43.1	TANK NUMBER	
14.43.2	TANK LOCATION	
14.43.3	IMO TYPE	
14.43.4	CAPACITY 100%	0 Cu Meters
14.43.5	MAX. LOAD RATE	0 Cu Meter/Hour
14.43.6	MAX. TANK PRESSURE	0 Bar
14.43.7	MAX. VENTING CAPACITY	0 Cu Meter/Hour
14.43.8	PRESSURE MONITOR	
14.43.9	CARGO PUMP CAPACITY	0 Cu Meter/Hour
14.43.10	STRIPPED ROB	0 Litres
14.43.11	HEATING MAX. TEMP	0 Degrees C
14.43.12	COOLING MIN. TEMP	0 Degrees C
14.43.13	CONSTRUCTION MATERIAL OR COATING	
14.43.14	COATING DATE	
14.43.15	HIGH LEVEL ALARM TYPE	
14.43.16	HI/HI LEVEL ALARM TYPE	
14.43.17	LEVEL GAUGE TYPE	
14.43.18	VAPOUR LOCKS DIAMETER	0 Millimeters
14.43.19	CLOSED SAMPLE TYPE	

14.44.1	TANK NUMBER	
14.44.2	TANK LOCATION	
14.44.3	IMO TYPE	
14.44.4	CAPACITY 100%	0 Cu Meters
14.44.5	MAX. LOAD RATE	0 Cu Meter/Hour
14.44.6	MAX. TANK PRESSURE	0 Bar
14.44.7	MAX. VENTING CAPACITY	0 Cu Meter/Hour
14.44.8	PRESSURE MONITOR	
14.44.9	CARGO PUMP CAPACITY	0 Cu Meter/Hour
14.44.10	STRIPPED ROB	0 Litres
14.44.11	HEATING MAX. TEMP	0 Degrees C
14.44.12	COOLING MIN. TEMP	0 Degrees C
14.44.13	CONSTRUCTION MATERIAL OR COATING	
14.44.14	COATING DATE	
14.44.15	HIGH LEVEL ALARM TYPE	
14.44.16	HI/HI LEVEL ALARM TYPE	
14.44.17	LEVEL GAUGE TYPE	
14.44.18	VAPOUR LOCKS DIAMETER	0 Millimeters
14.44.19	CLOSED SAMPLE TYPE	
14.45.1	TANK NUMBER	
14.45.2	TANK LOCATION	
14.45.3	IMO TYPE	
14.45.4	CAPACITY 100%	0 Cu Meters
14.45.5	MAX. LOAD RATE	0 Cu Meter/Hour
14.45.6	MAX. TANK PRESSURE	0 Bar
14.45.7	MAX. VENTING CAPACITY	0 Cu Meter/Hour
14.45.8	PRESSURE MONITOR	
14.45.9	CARGO PUMP CAPACITY	0 Cu Meter/Hour
14.45.10	STRIPPED ROB	0 Litres
14.45.11	HEATING MAX. TEMP	0 Degrees C
14.45.12	COOLING MIN. TEMP	0 Degrees C
14.45.13	CONSTRUCTION MATERIAL OR COATING	
14.45.14	COATING DATE	
14.45.15	HIGH LEVEL ALARM TYPE	
14.45.16	HI/HI LEVEL ALARM TYPE	
14.45.17	LEVEL GAUGE TYPE	
14.45.18	VAPOUR LOCKS DIAMETER	0 Millimeters
14.45.19	CLOSED SAMPLE TYPE	
14.46.1	TANK NUMBER	

14.46.2	TANK LOCATION	
14.46.3	IMO TYPE	
14.46.4	CAPACITY 100%	0 Cu Meters
14.46.5	MAX. LOAD RATE	0 Cu Meter/Hour
14.46.6	MAX. TANK PRESSURE	0 Bar
14.46.7	MAX. VENTING CAPACITY	0 Cu Meter/Hour
14.46.8	PRESSURE MONITOR	
14.46.9	CARGO PUMP CAPACITY	0 Cu Meter/Hour
14.46.10	STRIPPED ROB	0 Litres
14.46.11	HEATING MAX. TEMP	0 Degrees C
14.46.12	COOLING MIN. TEMP	0 Degrees C
14.46.13	CONSTRUCTION MATERIAL OR COATING	
14.46.14	COATING DATE	
14.46.15	HIGH LEVEL ALARM TYPE	
14.46.16	HI/HI LEVEL ALARM TYPE	
14.46.17	LEVEL GAUGE TYPE	
14.46.18	VAPOUR LOCKS DIAMETER	0 Millimeters
14.46.19	CLOSED SAMPLE TYPE	
14.47.1	TANK NUMBER	
14.47.2	TANK LOCATION	
14.47.3	IMO TYPE	
14.47.4	CAPACITY 100%	0 Cu Meters
14.47.5	MAX. LOAD RATE	0 Cu Meter/Hour
14.47.6	MAX. TANK PRESSURE	0 Bar
14.47.7	MAX. VENTING CAPACITY	0 Cu Meter/Hour
14.47.8	PRESSURE MONITOR	
14.47.9	CARGO PUMP CAPACITY	0 Cu Meter/Hour
14.47.10	STRIPPED ROB	0 Litres
14.47.11	HEATING MAX. TEMP	0 Degrees C
14.47.12	COOLING MIN. TEMP	0 Degrees C
14.47.13	CONSTRUCTION MATERIAL OR COATING	
14.47.14	COATING DATE	
14.47.15	HIGH LEVEL ALARM TYPE	
14.47.16	HI/HI LEVEL ALARM TYPE	
14.47.17	LEVEL GAUGE TYPE	
14.47.18	VAPOUR LOCKS DIAMETER	0 Millimeters
14.47.19	CLOSED SAMPLE TYPE	
14.48.1	TANK NUMBER	
14.48.2	TANK LOCATION	

14.48.3	IMO TYPE	
14.48.4	CAPACITY 100%	0 Cu Meters
14.48.5	MAX. LOAD RATE	0 Cu Meter/Hour
14.48.6	MAX. TANK PRESSURE	0 Bar
14.48.7	MAX. VENTING CAPACITY	0 Cu Meter/Hour
14.48.8	PRESSURE MONITOR	
14.48.9	CARGO PUMP CAPACITY	0 Cu Meter/Hour
14.48.10	STRIPPED ROB	0 Litres
14.48.11	HEATING MAX. TEMP	0 Degrees C
14.48.12	COOLING MIN. TEMP	0 Degrees C
14.48.13	CONSTRUCTION MATERIAL OR COATING	
14.48.14	COATING DATE	
14.48.15	HIGH LEVEL ALARM TYPE	
14.48.16	HI/HI LEVEL ALARM TYPE	
14.48.17	LEVEL GAUGE TYPE	
14.48.18	VAPOUR LOCKS DIAMETER	0 Millimeters
14.48.19	CLOSED SAMPLE TYPE	
14.49.1	TANK NUMBER	
14.49.2	TANK LOCATION	
14.49.3	IMO TYPE	
14.49.4	CAPACITY 100%	0 Cu Meters
14.49.5	MAX. LOAD RATE	0 Cu Meter/Hour
14.49.6	MAX. TANK PRESSURE	0 Bar
14.49.7	MAX. VENTING CAPACITY	0 Cu Meter/Hour
14.49.8	PRESSURE MONITOR	
14.49.9	CARGO PUMP CAPACITY	0 Cu Meter/Hour
14.49.10	STRIPPED ROB	0 Litres
14.49.11	HEATING MAX. TEMP	0 Degrees C
14.49.12	COOLING MIN. TEMP	0 Degrees C
14.49.13	CONSTRUCTION MATERIAL OR COATING	
14.49.14	COATING DATE	
14.49.15	HIGH LEVEL ALARM TYPE	
14.49.16	HI/HI LEVEL ALARM TYPE	
14.49.17	LEVEL GAUGE TYPE	
14.49.18	VAPOUR LOCKS DIAMETER	0 Millimeters
14.49.19	CLOSED SAMPLE TYPE	
14.50.1	TANK NUMBER	
14.50.2	TANK LOCATION	
14.50.3	IMO TYPE	

14.50.4	CAPACITY 100%	0 Cu Meters
14.50.5	MAX. LOAD RATE	0 Cu Meter/Hour
14.50.6	MAX. TANK PRESSURE	0 Bar
14.50.7	MAX. VENTING CAPACITY	0 Cu Meter/Hour
14.50.8	PRESSURE MONITOR	
14.50.9	CARGO PUMP CAPACITY	0 Cu Meter/Hour
14.50.10	STRIPPED ROB	0 Litres
14.50.11	HEATING MAX. TEMP	0 Degrees C
14.50.12	COOLING MIN. TEMP	0 Degrees C
14.50.13	CONSTRUCTION MATERIAL OR COATING	
14.50.14	COATING DATE	
14.50.15	HIGH LEVEL ALARM TYPE	
14.50.16	HI/HI LEVEL ALARM TYPE	
14.50.17	LEVEL GAUGE TYPE	
14.50.18	VAPOUR LOCKS DIAMETER	0 Millimeters
14.50.19	CLOSED SAMPLE TYPE	
14.51.1	TANK NUMBER	
14.51.2	TANK LOCATION	
14.51.3	IMO TYPE	
14.51.4	CAPACITY 100%	0 Cu Meters
14.51.5	MAX. LOAD RATE	0 Cu Meter/Hour
14.51.6	MAX. TANK PRESSURE	0 Bar
14.51.7	MAX. VENTING CAPACITY	0 Cu Meter/Hour
14.51.8	PRESSURE MONITOR	
14.51.9	CARGO PUMP CAPACITY	0 Cu Meter/Hour
14.51.10	STRIPPED ROB	0 Litres
14.51.11	HEATING MAX. TEMP	0 Degrees C
14.51.12	COOLING MIN. TEMP	0 Degrees C
14.51.13	CONSTRUCTION MATERIAL OR COATING	
14.51.14	COATING DATE	
14.51.15	HIGH LEVEL ALARM TYPE	
14.51.16	HI/HI LEVEL ALARM TYPE	
14.51.17	LEVEL GAUGE TYPE	
14.51.18	VAPOUR LOCKS DIAMETER	0 Millimeters
14.51.19	CLOSED SAMPLE TYPE	
14.52.1	TANK NUMBER	
14.52.2	TANK LOCATION	
14.52.3	IMO TYPE	
14.52.4	CAPACITY 100%	0 Cu Meters

14.52.5	MAX. LOAD RATE	0 Cu Meter/Hour
14.52.6	MAX. TANK PRESSURE	0 Bar
14.52.7	MAX. VENTING CAPACITY	0 Cu Meter/Hour
14.52.8	PRESSURE MONITOR	
14.52.9	CARGO PUMP CAPACITY	0 Cu Meter/Hour
14.52.10	STRIPPED ROB	0 Litres
14.52.11	HEATING MAX. TEMP	0 Degrees C
14.52.12	COOLING MIN. TEMP	0 Degrees C
14.52.13	CONSTRUCTION MATERIAL OR COATING	
14.52.14	COATING DATE	
14.52.15	HIGH LEVEL ALARM TYPE	
14.52.16	HI/HI LEVEL ALARM TYPE	
14.52.17	LEVEL GAUGE TYPE	
14.52.18	VAPOUR LOCKS DIAMETER	0 Millimeters
14.52.19	CLOSED SAMPLE TYPE	
14.53.1	TANK NUMBER	
14.53.2	TANK LOCATION	
14.53.3	IMO TYPE	
14.53.4	CAPACITY 100%	0 Cu Meters
14.53.5	MAX. LOAD RATE	0 Cu Meter/Hour
14.53.6	MAX. TANK PRESSURE	0 Bar
14.53.7	MAX. VENTING CAPACITY	0 Cu Meter/Hour
14.53.8	PRESSURE MONITOR	
14.53.9	CARGO PUMP CAPACITY	0 Cu Meter/Hour
14.53.10	STRIPPED ROB	0 Litres
14.53.11	HEATING MAX. TEMP	0 Degrees C
14.53.12	COOLING MIN. TEMP	0 Degrees C
14.53.13	CONSTRUCTION MATERIAL OR COATING	
14.53.14	COATING DATE	
14.53.15	HIGH LEVEL ALARM TYPE	
14.53.16	HI/HI LEVEL ALARM TYPE	
14.53.17	LEVEL GAUGE TYPE	
14.53.18	VAPOUR LOCKS DIAMETER	0 Millimeters
14.53.19	CLOSED SAMPLE TYPE	
14.54.1	TANK NUMBER	
14.54.2	TANK LOCATION	
14.54.3	IMO TYPE	
14.54.4	CAPACITY 100%	0 Cu Meters
14.54.5	MAX. LOAD RATE	0 Cu Meter/Hour

14.54.6	MAX. TANK PRESSURE	0 Bar
14.54.7	MAX. VENTING CAPACITY	0 Cu Meter/Hour
14.54.8	PRESSURE MONITOR	
14.54.9	CARGO PUMP CAPACITY	0 Cu Meter/Hour
14.54.10	STRIPPED ROB	0 Litres
14.54.11	HEATING MAX. TEMP	0 Degrees C
14.54.12	COOLING MIN. TEMP	0 Degrees C
14.54.13	CONSTRUCTION MATERIAL OR COATING	
14.54.14	COATING DATE	
14.54.15	HIGH LEVEL ALARM TYPE	
14.54.16	HI/HI LEVEL ALARM TYPE	
14.54.17	LEVEL GAUGE TYPE	
14.54.18	VAPOUR LOCKS DIAMETER	0 Millimeters
14.54.19	CLOSED SAMPLE TYPE	
14.55.1	TANK NUMBER	
14.55.2	TANK LOCATION	
14.55.3	IMO TYPE	
14.55.4	CAPACITY 100%	0 Cu Meters
14.55.5	MAX. LOAD RATE	0 Cu Meter/Hour
14.55.6	MAX. TANK PRESSURE	0 Bar
14.55.7	MAX. VENTING CAPACITY	0 Cu Meter/Hour
14.55.8	PRESSURE MONITOR	
14.55.9	CARGO PUMP CAPACITY	0 Cu Meter/Hour
14.55.10	STRIPPED ROB	0 Litres
14.55.11	HEATING MAX. TEMP	0 Degrees C
14.55.12	COOLING MIN. TEMP	0 Degrees C
14.55.13	CONSTRUCTION MATERIAL OR COATING	
14.55.14	COATING DATE	
14.55.15	HIGH LEVEL ALARM TYPE	
14.55.16	HI/HI LEVEL ALARM TYPE	
14.55.17	LEVEL GAUGE TYPE	
14.55.18	VAPOUR LOCKS DIAMETER	0 Millimeters
14.55.19	CLOSED SAMPLE TYPE	
14.56.1	TANK NUMBER	
14.56.2	TANK LOCATION	
14.56.3	IMO TYPE	
14.56.4	CAPACITY 100%	0 Cu Meters
14.56.5	MAX. LOAD RATE	0 Cu Meter/Hour
14.56.6	MAX. TANK PRESSURE	0 Bar

14.56.7	MAX. VENTING CAPACITY	0 Cu Meter/Hour
14.56.8	PRESSURE MONITOR	
14.56.9	CARGO PUMP CAPACITY	0 Cu Meter/Hour
14.56.10	STRIPPED ROB	0 Litres
14.56.11	HEATING MAX. TEMP	0 Degrees C
14.56.12	COOLING MIN. TEMP	0 Degrees C
14.56.13	CONSTRUCTION MATERIAL OR COATING	
14.56.14	COATING DATE	
14.56.15	HIGH LEVEL ALARM TYPE	
14.56.16	HI/HI LEVEL ALARM TYPE	
14.56.17	LEVEL GAUGE TYPE	
14.56.18	VAPOUR LOCKS DIAMETER	0 Millimeters
14.56.19	CLOSED SAMPLE TYPE	
14.57.1	TANK NUMBER	
14.57.2	TANK LOCATION	
14.57.3	IMO TYPE	
14.57.4	CAPACITY 100%	0 Cu Meters
14.57.5	MAX. LOAD RATE	0 Cu Meter/Hour
14.57.6	MAX. TANK PRESSURE	0 Bar
14.57.7	MAX. VENTING CAPACITY	0 Cu Meter/Hour
14.57.8	PRESSURE MONITOR	
14.57.9	CARGO PUMP CAPACITY	0 Cu Meter/Hour
14.57.10	STRIPPED ROB	0 Litres
14.57.11	HEATING MAX. TEMP	0 Degrees C
14.57.12	COOLING MIN. TEMP	0 Degrees C
14.57.13	CONSTRUCTION MATERIAL OR COATING	
14.57.14	COATING DATE	
14.57.15	HIGH LEVEL ALARM TYPE	
14.57.16	HI/HI LEVEL ALARM TYPE	
14.57.17	LEVEL GAUGE TYPE	
14.57.18	VAPOUR LOCKS DIAMETER	0 Millimeters
14.57.19	CLOSED SAMPLE TYPE	
14.58.1	TANK NUMBER	
14.58.2	TANK LOCATION	
14.58.3	IMO TYPE	
14.58.4	CAPACITY 100%	0 Cu Meters
14.58.5	MAX. LOAD RATE	0 Cu Meter/Hour
14.58.6	MAX. TANK PRESSURE	0 Bar
14.58.7	MAX. VENTING CAPACITY	0 Cu Meter/Hour

14.58.8	PRESSURE MONITOR	
14.58.9	CARGO PUMP CAPACITY	0 Cu Meter/Hour
14.58.10	STRIPPED ROB	0 Litres
14.58.11	HEATING MAX. TEMP	0 Degrees C
14.58.12	COOLING MIN. TEMP	0 Degrees C
14.58.13	CONSTRUCTION MATERIAL OR COATING	
14.58.14	COATING DATE	
14.58.15	HIGH LEVEL ALARM TYPE	
14.58.16	HI/HI LEVEL ALARM TYPE	
14.58.17	LEVEL GAUGE TYPE	
14.58.18	VAPOUR LOCKS DIAMETER	0 Millimeters
14.58.19	CLOSED SAMPLE TYPE	
14.59.1	TANK NUMBER	
14.59.2	TANK LOCATION	
14.59.3	IMO TYPE	
14.59.4	CAPACITY 100%	0 Cu Meters
14.59.5	MAX. LOAD RATE	0 Cu Meter/Hour
14.59.6	MAX. TANK PRESSURE	0 Bar
14.59.7	MAX. VENTING CAPACITY	0 Cu Meter/Hour
14.59.8	PRESSURE MONITOR	
14.59.9	CARGO PUMP CAPACITY	0 Cu Meter/Hour
14.59.10	STRIPPED ROB	0 Litres
14.59.11	HEATING MAX. TEMP	0 Degrees C
14.59.12	COOLING MIN. TEMP	0 Degrees C
14.59.13	CONSTRUCTION MATERIAL OR COATING	
14.59.14	COATING DATE	
14.59.15	HIGH LEVEL ALARM TYPE	
14.59.16	HI/HI LEVEL ALARM TYPE	
14.59.17	LEVEL GAUGE TYPE	
14.59.18	VAPOUR LOCKS DIAMETER	0 Millimeters
14.59.19	CLOSED SAMPLE TYPE	
14.60.1	TANK NUMBER	
14.60.2	TANK LOCATION	
14.60.3	IMO TYPE	
14.60.4	CAPACITY 100%	0 Cu Meters
14.60.5	MAX. LOAD RATE	0 Cu Meter/Hour
14.60.6	MAX. TANK PRESSURE	0 Bar
14.60.7	MAX. VENTING CAPACITY	0 Cu Meter/Hour
14.60.8	PRESSURE MONITOR	

14.60.9	CARGO PUMP CAPACITY	0 Cu Meter/Hour
14.60.10	STRIPPED ROB	0 Litres
14.60.11	HEATING MAX. TEMP	0 Degrees C
14.60.12	COOLING MIN. TEMP	0 Degrees C
14.60.13	CONSTRUCTION MATERIAL OR COATING	
14.60.14	COATING DATE	
14.60.15	HIGH LEVEL ALARM TYPE	
14.60.16	HI/HI LEVEL ALARM TYPE	
14.60.17	LEVEL GAUGE TYPE	
14.60.18	VAPOUR LOCKS DIAMETER	0 Millimeters
14.60.19	CLOSED SAMPLE TYPE	
14.61.1	TANK NUMBER	
14.61.2	TANK LOCATION	
14.61.3	IMO TYPE	
14.61.4	CAPACITY 100%	0 Cu Meters
14.61.5	MAX. LOAD RATE	0 Cu Meter/Hour
14.61.6	MAX. TANK PRESSURE	0 Bar
14.61.7	MAX. VENTING CAPACITY	0 Cu Meter/Hour
14.61.8	PRESSURE MONITOR	
14.61.9	CARGO PUMP CAPACITY	0 Cu Meter/Hour
14.61.10	STRIPPED ROB	0 Litres
14.61.11	HEATING MAX. TEMP	0 Degrees C
14.61.12	COOLING MIN. TEMP	0 Degrees C
14.61.13	CONSTRUCTION MATERIAL OR COATING	
14.61.14	COATING DATE	
14.61.15	HIGH LEVEL ALARM TYPE	
14.61.16	HI/HI LEVEL ALARM TYPE	
14.61.17	LEVEL GAUGE TYPE	
14.61.18	VAPOUR LOCKS DIAMETER	0 Millimeters
14.61.19	CLOSED SAMPLE TYPE	
14.62.1	TANK NUMBER	
14.62.2	TANK LOCATION	
14.62.3	IMO TYPE	
14.62.4	CAPACITY 100%	0 Cu Meters
14.62.5	MAX. LOAD RATE	0 Cu Meter/Hour
14.62.6	MAX. TANK PRESSURE	0 Bar
14.62.7	MAX. VENTING CAPACITY	0 Cu Meter/Hour
14.62.8	PRESSURE MONITOR	
14.62.9	CARGO PUMP CAPACITY	0 Cu Meter/Hour

14.62.10	STRIPPED ROB	0 Litres
14.62.11	HEATING MAX. TEMP	0 Degrees C
14.62.12	COOLING MIN. TEMP	0 Degrees C
14.62.13	CONSTRUCTION MATERIAL OR COATING	
14.62.14	COATING DATE	
14.62.15	HIGH LEVEL ALARM TYPE	
14.62.16	HI/HI LEVEL ALARM TYPE	
14.62.17	LEVEL GAUGE TYPE	
14.62.18	VAPOUR LOCKS DIAMETER	0 Millimeters
14.62.19	CLOSED SAMPLE TYPE	
14.63.1	TANK NUMBER	
14.63.2	TANK LOCATION	
14.63.3	IMO TYPE	
14.63.4	CAPACITY 100%	0 Cu Meters
14.63.5	MAX. LOAD RATE	0 Cu Meter/Hour
14.63.6	MAX. TANK PRESSURE	0 Bar
14.63.7	MAX. VENTING CAPACITY	0 Cu Meter/Hour
14.63.8	PRESSURE MONITOR	
14.63.9	CARGO PUMP CAPACITY	0 Cu Meter/Hour
14.63.10	STRIPPED ROB	0 Litres
14.63.11	HEATING MAX. TEMP	0 Degrees C
14.63.12	COOLING MIN. TEMP	0 Degrees C
14.63.13	CONSTRUCTION MATERIAL OR COATING	
14.63.14	COATING DATE	
14.63.15	HIGH LEVEL ALARM TYPE	
14.63.16	HI/HI LEVEL ALARM TYPE	
14.63.17	LEVEL GAUGE TYPE	
14.63.18	VAPOUR LOCKS DIAMETER	0 Millimeters
14.63.19	CLOSED SAMPLE TYPE	
14.64.1	TANK NUMBER	
14.64.2	TANK LOCATION	
14.64.3	IMO TYPE	
14.64.4	CAPACITY 100%	0 Cu Meters
14.64.5	MAX. LOAD RATE	0 Cu Meter/Hour
14.64.6	MAX. TANK PRESSURE	0 Bar
14.64.7	MAX. VENTING CAPACITY	0 Cu Meter/Hour
14.64.8	PRESSURE MONITOR	
14.64.9	CARGO PUMP CAPACITY	0 Cu Meter/Hour
14.64.10	STRIPPED ROB	0 Litres

14.64.11	HEATING MAX. TEMP	0 Degrees C
14.64.12	COOLING MIN. TEMP	0 Degrees C
14.64.13	CONSTRUCTION MATERIAL OR COATING	
14.64.14	COATING DATE	
14.64.15	HIGH LEVEL ALARM TYPE	
14.64.16	HI/HI LEVEL ALARM TYPE	
14.64.17	LEVEL GAUGE TYPE	
14.64.18	VAPOUR LOCKS DIAMETER	0 Millimeters
14.64.19	CLOSED SAMPLE TYPE	

8 BALLAST TANK CAPACITIES

14.65.1	TANK NUMBER	
14.65.2	TANK LOCATION	
14.65.3	COATING DATE	
14.65.4	CAPACITY	0 Cu Meter/Hour
14.66.1	TANK NUMBER	
14.66.2	TANK LOCATION	
14.66.3	COATING DATE	
14.66.4	CAPACITY	0 Cu Meter/Hour
14.67.1	TANK NUMBER	
14.67.2	TANK LOCATION	
14.67.3	COATING DATE	
14.67.4	CAPACITY	0 Cu Meter/Hour
14.68.1	TANK NUMBER	
14.68.2	TANK LOCATION	
14.68.3	COATING DATE	
14.68.4	CAPACITY	0 Cu Meter/Hour
14.69.1	TANK NUMBER	
14.69.2	TANK LOCATION	
14.69.3	COATING DATE	
14.69.4	CAPACITY	0 Cu Meter/Hour
14.70.1	TANK NUMBER	
14.70.2	TANK LOCATION	
14.70.3	COATING DATE	
14.70.4	CAPACITY	0 Cu Meter/Hour
14.71.1	TANK NUMBER	
14.71.2	TANK LOCATION	
14.71.3	COATING DATE	
14.71.4	CAPACITY	0 Cu Meter/Hour
14.72.1	TANK NUMBER	

14.72.2	TANK LOCATION	
14.72.3	COATING DATE	
14.72.4	CAPACITY	0 Cu Meter/Hour
14.73.1	TANK NUMBER	
14.73.2	TANK LOCATION	
14.73.3	COATING DATE	
14.73.4	CAPACITY	0 Cu Meter/Hour
14.74.1	TANK NUMBER	
14.74.2	TANK LOCATION	
14.74.3	COATING DATE	
14.74.4	CAPACITY	0 Cu Meter/Hour
14.75.1	TANK NUMBER	
14.75.2	TANK LOCATION	
14.75.3	COATING DATE	
14.75.4	CAPACITY	0 Cu Meter/Hour
14.76.1	TANK NUMBER	
14.76.2	TANK LOCATION	
14.76.3	COATING DATE	
14.76.4	CAPACITY	0 Cu Meter/Hour
14.77.1	TANK NUMBER	
14.77.2	TANK LOCATION	
14.77.3	COATING DATE	
14.77.4	CAPACITY	0 Cu Meter/Hour
14.78.1	TANK NUMBER	
14.78.2	TANK LOCATION	
14.78.3	COATING DATE	
14.78.4	CAPACITY	0 Cu Meter/Hour
14.79.1	TANK NUMBER	
14.79.2	TANK LOCATION	
14.79.3	COATING DATE	
14.79.4	CAPACITY	0 Cu Meter/Hour
14.80.1	TANK NUMBER	
14.80.2	TANK LOCATION	
14.80.3	COATING DATE	
14.80.4	CAPACITY	0 Cu Meter/Hour
14.81.1	TANK NUMBER	
14.81.2	TANK LOCATION	
14.81.3	COATING DATE	
14.81.4	CAPACITY	0 Cu Meter/Hour

14.82.1	TANK NUMBER	
14.82.2	TANK LOCATION	
14.82.3	COATING DATE	
14.82.4	CAPACITY	0 Cu Meter/Hour
14.83.1	TANK NUMBER	
14.83.2	TANK LOCATION	
14.83.3	COATING DATE	
14.83.4	CAPACITY	0 Cu Meter/Hour
14.84.1	TANK NUMBER	
14.84.2	TANK LOCATION	
14.84.3	COATING DATE	
14.84.4	CAPACITY	0 Cu Meter/Hour
14.85.1	TANK NUMBER	
14.85.2	TANK LOCATION	
14.85.3	COATING DATE	
14.85.4	CAPACITY	0 Cu Meter/Hour
14.86	TOTAL CAPACITY	0 Cu Meter/Hour

9 TANK CLEANING SYSTEM

14.87	Is tank cleaning equipment fixed in cargo tanks?	No
14.88	Is portable tank cleaning equipment available?	
14.89	What is the capacity of one tank cleaning machine?	0 Cu Meter/Hour
14.89.1	At pressure of:	0 Bar
14.89.2	Duration of complete cycle	0 Minutes
14.89.3	Nozzle diameter	0 Millimeters
14.90	Tank washing pump capacity	0 Cu Meter/Hour
14.91	Is a washing water heater fitted?	
14.91.1	What is the Max. washing water temperature?	0 Degrees C
14.92	Maximum number of machines operative at pressure above	0
14.93	Where there is different type of equipment used, what is the capacity and type of equipment?	

CHAPTER 15 CHAPTER 15

1 GAS CARRIER INFORMATION

15.1	Does vessel have an IOPPC with Form B identifying the vessel as an oil product carrier?	No
15.2	Do the Safety Construction and Safety Equipment Certificates identify the vessel as a 'tanker engaged in the trade of carrying oil other than crude oil'?	

2 CARGO INFORMATION

15.3 List products which the ship is Certified to carry

3 TRANSPORT AND CARRIAGE CONDITIONS

15.4	What is the Minimum allowable tank temperature?	0 Degrees C
15.5	What is the Maximum Permissible tank pressure?	0 KP/CM2
15.6	Lowest permissible cargo tank pressure	0 KP/CM2
15.7	What are the Number of grades that can be loaded/ carried/discharged simultaneously and completely segregated without risk of contamination?	0
15.8	What is the Number of Products that can be conditioned by reliquefaction simultaneously?	0
15.9	State the number of natural segregations (NB: Separation must be by the removal of spools or the insertion of blanks)	0
15.10	Material of Construction of Cargo Piping System	
15.11	Is Cargo piping system fitted with filters?	
15.11.1	If yes, can cargo piping filters be by-passed or removed?	
15.12	Are Expansion loops fitted?	
15.13	Are liquid cargo lines free of expansion bellows?	
15.14	Location of Booster pumps	

4 CARGO TANKS

15.15	What Type and materials of cargo tanks?	
15.16	Maximum allowable relief valve setting	0 Bar guage
15.17	IMO Setting	0 Bar guage
15.18	USCG Setting	0 Bar guage
15.19	Safety valve set pressure - if variable give range of pilot valves	0 Bar
15.19.1	If variable give range of pilot valves - from:	0 Bar
15.19.2	If variable give range of pilot valves - to:	0 Bar
15.20	Maximum Vacuum	0 KP/CM2
15.21	Maximum cargo specific density	0
15.22	Maximum rate of cool down	0 Degrees C/Hr
15.23	State any limitations regarding partially filled tanks	
15.24	State allowable combinations of filled and empty tanks	

5 CARGO TANK CAPACITIES

15.25.1	Tank 1 Capacity m3 (100%)	0 Cu Meters
15.25.2	Tank 1 Butane Tonnes	0 Tonnes
15.25.3	Tank 1 Butane degrees C	0 Degrees C
15.25.4	Tank 1 Propane Tonnes	0 Tonnes

15.25.5	Tank 1 Propane degrees C	0 Degrees C
15.25.6	Tank 1 Ammonia Tonnes	0 Tonnes
15.25.7	Tank 1 Ammonia degrees C	0 Degrees C
15.25.7.1	Specify other cargo	
15.25.8	Tank 1 "other" Tonnes	0 Tonnes
15.25.9	Tank 1 "other" degrees C	0 Degrees C
15.25.10	Tank 1 "other" Tonnes	0 Tonnes
15.25.11	Tank 1 "other" degrees C	0 Degrees C
15.26.1	Tank 2 Capacity m3 (100%)	0 Cu Meters
15.26.2	Tank 2 Butane Tonnes	0 Tonnes
15.26.3	Tank 2 Butane degrees C	0 Degrees C
15.26.4	Tank 2 Propane Tonnes	0 Tonnes
15.26.5	Tank 2 Propane degrees C	0 Degrees C
15.26.6	Tank 2 Ammonia Tonnes	0 Tonnes
15.26.7	Tank 2 Ammonia degrees C	0 Degrees C
15.26.7.1	Specify other cargo	
15.26.8	Tank 2 "other" Tonnes	0 Tonnes
15.26.9	Tank 2 "other" degrees C	0 Degrees C
15.26.10	Tank 2 "other" Tonnes	0 Tonnes
15.26.11	Tank 2 "other" degrees C	0 Degrees C
15.27.1	Tank 3 Capacity m3 (100%)	0 Cu Meters
15.27.2	Tank 3 Butane Tonnes	0 Tonnes
15.27.3	Tank 3 Butane degrees C	0 Degrees C
15.27.4	Tank 3 Propane Tonnes	0 Tonnes
15.27.5	Tank 3 Propane degrees C	0 Degrees C
15.27.6	Tank 3 Ammonia Tonnes	0 Tonnes
15.27.7	Tank 3 Ammonia degrees C	0 Degrees C
15.27.7.1	Specify other cargo	
15.27.8	Tank 3 "other" Tonnes	0 Tonnes
15.27.9	Tank 3 "other" degrees C	0 Degrees C
15.27.10	Tank 3 "other" Tonnes	0 Tonnes
15.27.11	Tank 3 "other" degrees C	0 Degrees C
15.28.1	Tank 4 Capacity m3 (100%)	0 Cu Meters
15.28.2	Tank 4 Butane Tonnes	0 Tonnes
15.28.3	Tank 4 Butane degrees C	0 Degrees C
15.28.4	Tank 4 Propane Tonnes	0 Tonnes
15.28.5	Tank 4 Propane degrees C	0 Degrees C
15.28.6	Tank 4 Ammonia Tonnes	0 Tonnes
15.28.7	Tank 4 Ammonia degrees C	0 Degrees C

15.28.7.1	Specify other cargo	
15.28.8	Tank 4 "other" Tonnes	0 Tonnes
15.28.9	Tank 4 "other" degrees C	0 Degrees C
15.28.10	Tank 4 "other" Tonnes	0 Tonnes
15.28.11	Tank 4 "other" degrees C	0 Degrees C
15.29.1	Tank 5 Capacity m3 (100%)	0 Cu Meters
15.29.2	Tank 5 Butane Tonnes	0 Tonnes
15.29.3	Tank 5 Butane degrees C	0 Degrees C
15.29.4	Tank 5 Propane Tonnes	0 Tonnes
15.29.5	Tank 5 Propane degrees C	0 Degrees C
15.29.6	Tank 5 Ammonia Tonnes	0 Tonnes
15.29.7.1	Specify other cargo	
15.29.7	Tank 5 Ammonia degrees C	0 Degrees C
15.29.8	Tank 5 "other" Tonnes	0 Tonnes
15.29.9	Tank 5 "other" degrees C	0 Degrees C
15.29.10	Tank 5 "other" Tonnes	0 Tonnes
15.29.11	Tank 5 "other" degrees C	0 Degrees C
15.30.1	Tank 6 Capacity m3 (100%)	0 Cu Meters
15.30.2	Tank 6 Butane Tonnes	0 Tonnes
15.30.3	Tank 6 Butane degrees C	0 Degrees C
15.30.4	Tank 6 Propane Tonnes	0 Tonnes
15.30.5	Tank 6 Propane degrees C	0 Degrees C
15.30.6	Tank 6 Ammonia Tonnes	0 Tonnes
15.30.7	Tank 6 Ammonia degrees C	0 Degrees C
15.30.7.1	Specify other cargo	
15.30.8	Tank 6 "other" Tonnes	0 Tonnes
15.30.9	Tank 6 "other" degrees C	0 Degrees C
15.30.10	Tank 6 "other" Tonnes	0 Tonnes
15.30.11	Tank 6 "other" degrees C	0 Degrees C
15.31.1	Tank 7 Capacity m3 (100%)	0 Cu Meters
15.31.2	Tank 7 Butane Tonnes	0 Tonnes
15.31.3	Tank 7 Butane degrees C	0 Degrees C
15.31.4	Tank 7 Propane Tonnes	0 Tonnes
15.31.5	Tank 7 Propane degrees C	0 Degrees C
15.31.6	Tank 7 Ammonia Tonnes	0 Tonnes
15.31.7	Tank 7 Ammonia degrees C	0 Degrees C
15.31.7.1	Specify other cargo	
15.31.8	Tank 7 "other" Tonnes	0 Tonnes
15.31.9	Tank 7 "other" degrees C	0 Degrees C

15.31.10	Tank 7 "other" Tonnes	0 Tonnes
15.31.11	Tank 7 "other" degrees C	0 Degrees C
15.32.1	Tank 8 Capacity m3 (100%)	0 Cu Meters
15.32.2	Tank 8 Butane Tonnes	0 Tonnes
15.32.3	Tank 8 Butane degrees C	0 Degrees C
15.32.4	Tank 8 Propane Tonnes	0 Tonnes
15.32.5	Tank 8 Propane degrees C	0 Degrees C
15.32.6	Tank 8 Ammonia Tonnes	0 Tonnes
15.32.7	Tank 8 Ammonia degrees C	0 Degrees C
15.32.7.1	Specify other cargo	
15.32.8	Tank 8 "other" Tonnes	0 Tonnes
15.32.9	Tank 8 "other" degrees C	0 Degrees C
15.32.10	Tank 8 "other" Tonnes	0 Tonnes
15.32.11	Tank 8 "other" degrees C	0 Degrees C
15.33	Total Capacity of all tanks (100%)	0 Cu Meters
15.34	Total Capacity of all Butane tanks Tonnes	0 Tonnes
15.35	Total Capacity of all Propane tanks Tonnes	0 Tonnes
15.36	Total Capacity of all Ammonia tanks Tonnes	0 Tonnes
15.37	Total Capacity of all "other" tanks Tonnes	0 Tonnes
15.38	Total Capacity of all "other" tanks Tonnes	0 Tonnes

6 LOADING RATES

15.39	From Refrigerated Storage	
15.39.1	Butane - Rate (tonnes/hr) with vapor return	0 Tonnes/Hour
15.39.2	Butane - Rate (tonnes/hr) without vapor return	0 Tonnes/Hour
15.39.3	Propane - Rate (tonnes/hr) with vapor return	0 Tonnes/Hour
15.39.4	Propane - Rate (tonnes/hr) without vapor return	0 Tonnes/Hour
15.39.5	Ammonia - Rate (tonnes/hr) with vapor return	0 Tonnes/Hour
15.39.6	Ammonia - Rate (tonnes/hr) without vapor return	0 Tonnes/Hour
15.39.7	"other" - Rate (tonnes/hr) with vapor return	0 Tonnes/Hour
15.39.7.1	Specify other cargo	
15.39.8	"other" - Rate (tonnes/hr) without vapor return	0 Tonnes/Hour
15.39.9	"other" - Rate (tonnes/hr) with vapor return	0 Tonnes/Hour
15.39.10	"other" - Rate (tonnes/hr) without vapor return	0 Tonnes/Hour
15.40	From Pressure Storage	
15.40.1	Butane 0-30deg C - Rate (tonnes/hr) with vapor return	0 Tonnes/Hour
15.40.2	Butane 0-30deg C - Rate (tonnes/hr) without vapor return	0 Tonnes/Hour
15.40.3	Propane 0 deg C - Rate (tonnes/hr) with vapor return	0 Tonnes/Hour

15.40.4	Propane 0 deg C - Rate (tonnes/hr) without vapor return	0 Tonnes/Hour
15.40.5	Propane 10 deg C - Rate (tonnes/hr) with vapor return	0 Tonnes/Hour
15.40.6	Propane 10 deg C - Rate (tonnes/hr) without vapor return	0 Tonnes/Hour
15.40.7	Propane 20 deg C - Rate (tonnes/hr) with vapor return	0 Tonnes/Hour
15.40.8	Propane 20 deg C - Rate (tonnes/hr) without vapor return	0 Tonnes/Hour
15.40.9	Propane 30 deg C - Rate (tonnes/hr) with vapor return	0 Tonnes/Hour
15.40.10	Propane 30 deg C - Rate (tonnes/hr) without vapor return	0 Tonnes/Hour
15.41	Special remarks	

7 DISCHARGING - GENERAL

15.42	Cargo Pumps	
15.42.1	Type of Cargo Pumps	
15.42.2	Number of pumps per tank	0
15.42.3	Rate per Pump m3/hr	0 Cu Meter/Hour
15.42.4	At Delivery Head mlc	0 Meters liquid column
15.42.5	Maximum density kg/m3	0 KG/Cu Meter
15.43	Booster Pump	
15.43.1	Type of Booster Pumps	
15.43.2	Number of pumps per tank	0
15.43.3	Rate per Pump m3/hr	0 Cu Meter/Hour
15.43.4	At Delivery Head mlc	0 Meters liquid column
15.43.5	Maximum density kg/m3	0 KG/Cu Meter

8 DISCHARGE PERFORMANCE

15.44	Full Cargo Discharge Times (using all main pumps)	
15.44.1	Fully Refrigerated	
15.44.1.1	Hours (Back Press 1 kP/cm2) with vapor return	0 Hours
15.44.1.2	Hours (Back Press 1 kP/cm2) without vapor return	0 Hours
15.44.1.3	Hours (Back Press 5 kP/cm2) with vapor return	0 Hours
15.44.1.4	Hours (Back Press 5 kP/cm2) without vapor return	0 Hours
15.44.1.5	Hours (Back Press 10 kP/cm2) with vapor return	0 Hours
15.44.1.6	Hours (Back Press 10 kP/cm2) without vapor return	0 Hours
15.44.2	Pressurized	
15.44.2.1	Hours (Back Press 1 kP/cm2) with vapor return	0 Hours
15.44.2.2	Hours (Back Press 1 kP/cm2) without vapor return	0 Hours
15.44.2.3	Hours (Back Press 5 kP/cm2) with vapor return	0 Hours

15.44.2.4	Hours (Back Press 5 kP/cm2) without vapor return		0 Hours
15.44.2.5	Hours (Back Press 10 kP/cm2) with vapor return		0 Hours
15.44.2.6	Hours (Back Press 10 kP/cm2) without vapor return		0 Hours

9 UNPUMPABLES

15.45	Tank 1 (m3)	0 Cu Meters
15.46	Tank 2 (m3)	0 Cu Meters
15.47	Tank 3 (m3)	0 Cu Meters
15.48	Tank 4 (m3)	0 Cu Meters
15.49	Tank 5 (m3)	0 Cu Meters
15.50	Tank 6 (m3)	0 Cu Meters
15.51	Tank 7 (m3)	0 Cu Meters
15.52	Tank 8 (m3)	0 Cu Meters
15.53	Total	0 Cu Meters

10 VAPORIZING UNPUMPABLES

15.54	Process used	
15.55	Time to vaporize liquid unpumpables remaining after full cargo discharge - Propane	0 Hours
15.56	Time to vaporize liquid unpumpables remaining after full cargo discharge - Butane	0 Hours
15.57	Time to vaporize liquid unpumpables remaining after full cargo discharge - Ammonia	0 Hours
15.58	Specify other cargo	
15.58.1	Time to vaporize liquid unpumpables remaining after full cargo discharge - Other	0 Hours
15.59	Specify other cargo	
15.59.1	Time to vaporize liquid unpumpables remaining after full cargo discharge - Other	0 Hours
15.60	Specify other cargo	
15.60.1	Time to vaporize liquid unpumpables remaining after full cargo discharge - Other	0 Hours

11 RELIQUEFACTION PLANT

15.61	Plant Design Conditions - air temperature	degrees C	0 Degrees C
15.61.1	Plant Design Conditions - sea temperature	degrees C	0 Degrees C
15.62	Is the plant single stage/direct?		
15.62.1	Is the plant two stage/direct?		
15.62.2	Is the plant simple cascade?		
15.63	Coolant type		
15.64	Compressor type		
15.64.1	Compressor makers name		
15.64.2	Number of compressors		0

15.64.3	Capacity per unit	0 Cu Meter/Hour
15.64.4	Are they Oil Free?	

12 COOLING CAPACITY

15.65.1	State Cooling capacity for Propane @ -42 degrees C	0 KCal/Hour
15.65.2	State Cooling capacity for Propane @ -20 degrees C	0 KCal/Hour
15.65.3	State Cooling capacity for Propane @ -5 degrees C	0 KCal/Hour
15.66.1	State Cooling capacity for Butane @ -42 degrees	0 KCal/Hour
15.66.2	State Cooling capacity for Butane @ -20 degrees C	0 KCal/Hour
15.66.3	State Cooling capacity for Butane @ -5 degrees C	0 KCal/Hour

13 CARGO TEMPERATURE LOWERING CAPABILITY

15.67	Time taken to lower the temperature of:	
15.67.1.1	Propane from … degrees C to - 42 degrees C	0 Degrees C
15.67.1.2	Hours	0 Hours
15.67.1.3	Propane from -5 degrees C to - 42degrees C	0 Hours
15.67.1.4	Propane from -38 degrees C to - 42degrees C	0 Hours
15.67.1.5	Propane from +20 degrees C to - 0.5degrees C	0 Hours
15.67.1.6	Propane from +10 degrees C to -0.5degrees C	0 Hours
15.67.2.1	Butane from +20 degrees C to -0.5degreesC	0 Hours
15.67.2.2	Butane from +10 degrees C to -0.5degreesC	0 Hours
15.67.2.3	Butane from +10 degrees C to -5degreesC	0 Hours
15.67.3.1	Cargo	
15.67.3.2	From	0 Degrees C
15.67.3.3	To	0 Degrees C
15.67.3.4	Hours	0 Hours
15.67.4.1	Cargo	
15.67.4.2	From	0 Degrees C
15.67.4.3	To	0 Degrees C
15.67.4.4	Hours	0 Hours
15.67.5.1	Cargo	
15.67.5.2	From	0 Degrees C
15.67.5.3	To	0 Degrees C
15.67.5.4	Hours	0 Hours
15.67.6.1	Cargo	
15.67.6.2	From	0 Degrees C
15.67.6.3	To	0 Degrees C
15.67.6.4	Hours	0 Hours
15.68	Is there an emergency discharge method available?	
15.68.1	If yes, the method is:	

15.69	Sample points are provided for vapour	
15.69.1	Sample points are provided for liquid	

14 DECK TANK CAPACITIES

15.70	Are Deck pressure tanks fitted ?	No
15.71	Propane Capacity	0 Cu Meters
15.72	Butane Capacity	0 Cu Meters
15.73	Ammonia Capacity	0 Cu Meters
15.74	Maximum allowable relief valve setting	0 Bar guage
15.75	Material of tank	

15 PRE-LOADING COOLDOWN

15.76.1	Propane - Quantity of Coolant Required	0 Cu Meters
15.76.2	Propane - Time required to cooldown cargo tanks from ambient temperature with vapour return line	0 Hours
15.76.3	Propane - Time required to cooldown cargo tanks from ambient temperature without vapour return line	0 Hours
15.77.1	Butane - Quantity of Coolant Required	0 Cu Meters
15.77.2	Butane - Time required to cooldown cargo tanks from ambient temperature with vapour return line	0 Hours
15.77.3	Butane - Time required to cooldown cargo tanks from ambient temperature without vapour return line	0 Hours
15.78.1	Ammonia - Quantity of Coolant Required	0 Cu Meters
15.78.2	Ammonia - Time required to cooldown cargo tanks from ambient temperature with vapour return line	0 Hours
15.78.3	Ammonia - Time required to cooldown cargo tanks from ambient temperature without vapour return line	0 Hours
15.79.1	VCM - Quantity of Coolant Required	0 Cu Meters
15.79.2	VCM - Time required to cooldown cargo tanks from ambient temperature without vapour return line	0 Hours
15.79.3	VCM - Time required to cooldown cargo tanks from ambient temperature with vapour return line	0 Hours

16 VAPORISER

15.80	Type of Vaporiser	
15.81	Number of Vaporisers fitted	0
15.82.1	Capacity per unit - Propane	0 Cu Meter/Hour vapour
15.82.2	Liquid Supply Rate	0 Cu Meter/Hour liquid
15.82.3	Delivery Temperature	0 Degrees C
15.83.1	Capacity per unit - Ammonia	0 Cu Meter/Hour vapour
15.83.2	Liquid Supply Rate	0 Cu Meter/Hour liquid
15.83.3	Delivery Temperature	0 Degrees C
15.84.1	Capacity per unit - Nitrogen	0 Cu Meter/Hour vapour
15.84.2	Liquid Supply Rate	0 Cu Meter/Hour liquid

15.84.3	Delivery Temperature	0 Degrees C

17 BLOWER

15.85	Type of Blower	
15.85.1	Rated Capacity	0 Cu Meter/Hour
15.85.2	Delivery Pressure	0 KP/CM2

18 CARGO RE-HEATER

15.86	Type of Re-Heater	
15.86.1	Number Fitted	0
15.86.2	Heating Medium	
15.87.1	Discharge rates with sea water at 15 degrees C to raise product temperature of Propane from -42 degrees C to -5 degrees C	0 Cu Meter/Hour
15.87.2	Discharge rates with sea water at 15 degrees C to raise product temperature of Ammonia from -42 degrees C to -5 degrees C	0 Cu Meter/Hour

19 HYDRATE CONTROL

15.88	What is the type of Depressant?	
15.89	What is the freezing point temperature?	0 Degrees C
15.90	What is the Quantity of Depressant Carried?	0 Litres
15.91	What is the means of injection?	
15.92	Name any other system used	
15.93	Is there an Additional pressure relief system fitted?	
15.94	Is Emergency cargo jettison provided?	
15.95	If yes, can Emergency cargo jettisoning be isolated from the cargo system when not in use?	

20 CARGO MEASUREMENT

15.96	Level Gauges	
15.96.1	Are level gauges local or remote?	
15.96.2	Name of manufacture	
15.96.3	Type	
15.96.4	Rated Accuracy	0 Percent
15.96.5	Certifying Authority	
15.96.6	Are slip tubes installed?	
15.97	Temperature Gauges	
15.97.1	Name of manufacture	
15.97.2	Type	
15.97.3	Rated Accuracy	0 Percent
15.97.4	Certifying Authority	
15.98	Pressure Gauges	

15.98.1	Name of manufacture	
15.98.2	Type	
15.98.3	Rated Accuracy	0 Percent
15.98.4	Certifying Authority	
15.99	Oxygen Analyser	
15.99.1	Name of manufacture	
15.99.2	Type	
15.99.3	What is the lowest level measurable?	0 Percent
15.100	Fixed Gas Analyser	
15.100.1	Name of manufacture	
15.100.2	Type	
15.101	Are Cargo tank calibration tables available?	
15.101.1	Name of Measuring Company	
15.101.2	Name of Certifying Authority	
15.102.1	Calibration calculated to cm?	
15.102.2	Calibration calculated to 1/2 cm?	
15.103.1	Tables established to cm?	
15.103.2	Tables established to mm?	
15.103.3	Tables established to "other"	
15.104	Are trim and list corrections available?	
15.105	Are temperature corrections available?	
15.106	Are float gauge tape corrections available?	

21 CARGO SAMPLING

15.107	Indicate whether cargo samples may be obtained from the levels specified:	
15.107.1. Tank 1 top 1		
15.107.1. Tank 1 middle 2		
15.107.1. Tank 1 bottom 3		
15.107.2. Tank 2 top 1		
15.107.2. Tank 2 middle 2		
15.107.2. Tank 2 bottom 3		
15.107.3. Tank 3 top 1		
15.107.3. Tank 3 middle 2		
15.107.3. Tank 3 bottom 3		

15.107.4. Tank 4 top 1		
15.107.4. Tank 4 middle 2		
15.107.4. Tank 4 bottom 3		
15.107.5. Tank 5 top 1		
15.107.5. Tank 5 middle 2		
15.107.5. Tank 5 bottom 3		
15.107.6. Tank 6 top 1		
15.107.6. Tank 6 middle 2		
15.107.6. Tank 6 bottom 3		
15.107.7. Tank 7 top 1		
15.107.7. Tank 7 middle 2		
15.107.7. Tank 7 bottom 3		
15.107.8. Tank 8 top 1		
15.107.8. Tank 8 middle 2		
15.107.8. Tank 8 bottom 3		
15.108	Can samples be drawn from tank vapour outlet?	
15.109	Can samples be drawn from manifold liquid line?	
15.110	Can samples be drawn from manifold vapour line?	
15.111	Can samples be drawn from pump discharge line?	
15.112	State sample connection type	
15.112.1	State sample connection size	0 Millimeters
15.113	Number of ESD actuation points	0

22 CONNECTIONS TO SHORE FOR ESD AND COMMUNICATIONS SYSTEMS

15.114	Is ESD connection to shore available?	
15.114.1	If yes, is the system pneumatic?	
15.114.2	If yes, is the system electrical?	
15.114.3	If yes, is the system fiber optic?	
15.115	What is the type of plug used?	
15.116	Are ESD hoses or cables available on board?	

15.116.1	If yes, length of pneumatic	0 Millimeters
15.116.2	If yes, length of electrical	0 Millimeters
15.116.3	If yes, length of fiber optic	0 Millimeters
15.117	Is there a connection available for a telephone line?	
15.118	Are ESD connections available on both sides of vessel?	
15.118.1	Are ESD Fusible plugs fitted at tank domes?	
15.118.2	Are ESD Fusible plugs fitted at manifolds?	
15.119	Is the link compatible with the SIGTTO guidelines?	
15.120	Type of manifold valve	
15.120.1	Closing time in seconds	0 Seconds
15.120.2	Is closing time adjustable?	
15.121	Is Independent high level shut down system fitted(overflow control)?	
15.121.1	If yes, does the independent high level shutdown system also switch off running cargo pumps?	
15.122	Shut down level %	0 Percent

23 INERT GAS

15.123	Main IG Plant	
15.123.1	Type of system	
15.123.2	Capacity	0 Cu Meter/Hour
15.123.3	Type of fuel used	
15.123.4	Composition of IG - oxygen	0 Percent
15.123.5	Composition of IG - CO2	0 Percent
15.123.6	Composition of IG - Nox	0 Percent
15.123.7	Composition of IG - N2	0 Percent
15.123.8	Lowest dewpoint achievable	0 Degrees C
15.123.9	Used for	
15.124	Auxiliary IG or Nitrogen plant	
15.124.1	Type of System	
15.124.2	Capacity	0 Cu Meter/Hour
15.124.3	Composition of IG - oxygen	0 Percent
15.124.4	Composition of IG - CO2	0 Percent
15.124.5	Composition of IG - Nox	0 Percent
15.124.6	Composition of IG - N2	0 Percent
15.124.7	Lowest dewpoint achievable	0 Degrees C
15.124.8	Used for	
15.125	Nitrogen	
15.125.1	Liquid storage capacity	0 Cu Meters
15.125.2	Daily boil-off loss	0 Cu Meters
15.125.3	Maximum supply pressure	0 KP/CM3

15.125.4	Supply capacity	0 Cu Meter/Hour
15.125.5	Used for	

24 CARGO TANK INERTING/DE-INERTING

15.126	What is the time taken to inert from fresh air to under 5% O2 at -25 degree C?	0 Hours
15.127	What is the time taken to inert from cargo vapour to fully inert at -25 degrees dewpoint when IG density is less than product?	0 Hours
15.128	What is the time taken to inert from cargo vapour to fully inert at -25 degrees dewpoint when IG density is greater than product?	0 Hours
15.129	Do relief valves discharging liquid cargo from the cargo piping system , discharge to the cargo vent mast?	
15.129.1	If yes, is the vent mast equipped with liquid sensor and alarm?	
15.129.2	If yes, does the alarm activate the pump stop?	
15.130	Is there one ESD valve per manifold?	
15.130.1	If no, the arrangement is:	
15.131	Is a hand operated valve fitted outboard of the manifold ESD valve?	
15.132	Does inert gas piping pass through accommodation spaces, service spaces or control stations?	
15.133	Can the Inert Gas System be fully segregated from the cargo system?	
15.134	Are liquid drains fitted in cargo piping?	
15.135	Are purge points fitted?	
15.136	Are local pressure gauges fitted outboard of the manifold valves?	
15.137	Is a temperature sensor fitted at or near the manifold?	
15.138	Is a cargo compressor room fitted?	
15.140	Is protective equipment for the protection of crew members available on board?	
15.140.1	When required by the Gas Code, is respiratory and eye protection for every person on board available for emergency escape purposes?	
15.140.2	Are two additional sets of respiratory and eye protection available on the navigating bridge?	
15.141	Is there a permanently installed system of gas detection fitted?	
15.141.1	Is the gas detection system fitted with high and low sampling heads/sensors?	

25 GAS FREEING TO FRESH AIR

15.142	Plant used	
15.143	What is the time taken from fully inert condition to fully breathable fresh air?	0 Hours

26 CHANGING CARGO GRADES

15.144 Indicate number of hours needed to change grades from the removal of pumpables to tanks fit to load and the quantity of inert gas consumed during the operation

15.144.1. From propane to butane 1	0 Hours
15.144.1. From propane to butane 2	0 Cu Meters
15.144.1. From propane to ammonia 3	0 Hours
15.144.1. From propane to ammonia 4	0 Cu Meters
15.144.1. From propane to VCM 5	0 Hours
15.144.1. From propane to VCM 6	0 Cu Meters
15.144.2. From butane to propane 1	0 Hours
15.144.2. From butane to propane 2	0 Cu Meters
15.144.2. From butane to ammonia 3	0 Hours
15.144.2. From butane to ammonia 4	0 Cu Meters
15.144.2. From butane to VCM 5	0 Hours
15.144.2. From butane to VCM 6	0 Cu Meters
15.144.3. From ammonia to propane 1	0 Hours
15.144.3. From ammonia to propane 2	0 Cu Meters
15.144.3. From ammonia to butane 3	0 Hours
15.144.3. From ammonia to butane 4	0 Cu Meters
15.144.3. From ammonia to VCM 5	0 Hours
15.144.3. From ammonia to VCM 6	0 Cu Meters
15.144.4 Restrictions	
15.144.5. From VCM to propane 1	0 Hours
15.144.5. From VCM to propane 2	0 Cu Meters
15.144.5. From VCM to butane 3	0 Hours

15.144.54	From VCM to butane	0 Cu Meters
15.144.55	From VCM to ammonia	0 Hours
15.144.56	From VCM to ammonia	0 Cu Meters
15.144.6	Note any operations that cannot be carried out at sea	

27 CARGO MANIFOLD

15.145	Center of manifold to bow	0 Meters
15.146	Center of manifold to stern	0 Meters
15.147.1	Dimension A	0 Millimeters
15.147.2	Dimension B	0 Millimeters
15.147.3	Dimension C	0 Millimeters
15.147.4	Dimension D	0 Millimeters
15.147.5	Dimension E	0 Millimeters
15.147.6	Dimension F	0 Millimeters
15.147.7	Dimension G	0 Millimeters
15.147.8	Dimension H	0 Millimeters
15.148.1	Pipe Flange A - duty	
15.148.2	Pipe Flange A - rating	0 Bar
15.148.3	Pipe Flange A - size	0 Millimeters
15.148.4	Pipe Flange A raised or flat face	
15.149.1	Pipe Flange B - duty	
15.149.2	Pipe Flange B - rating	0 Bar
15.149.3	Pipe Flange B - size	0 Millimeters
15.149.4	Pipe Flange B raised or flat face	
15.150.1	Pipe Flange C - duty	
15.150.2	Pipe Flange C - rating	0 Bar
15.150.3	Pipe Flange C - size	0 Millimeters
15.150.4	Pipe Flange C raised or flat face	
15.151.1	Pipe Flange D - duty	
15.151.2	Pipe Flange D - rating	0 Bar
15.151.3	Pipe Flange D - size	0 Millimeters
15.151.4	Pipe Flange D raised or flat face	
15.152.1	Pipe Flange E - duty	
15.152.2	Pipe Flange E - rating	0 Bar
15.152.3	Pipe Flange E - size	0 Millimeters
15.152.4	Pipe Flange E raised or flat face	
15.153.1	Pipe Flange F - duty	
15.153.2	Pipe Flange F - rating	0 Bar

15.153.3	Pipe Flange F - size	0 Millimeters
15.153.4	Pipe Flange F raised or flat face	
15.154.1	Pipe Flange G - duty	
15.154.2	Pipe Flange G - rating	0 Bar
15.154.3	Pipe Flange G - size	0 Millimeters
15.154.4	Pipe Flange G raised or flat face	
15.155.1	Pipe Flange H - duty	
15.155.2	Pipe Flange H - rating	0 Bar
15.155.3	Pipe Flange H - size	0 Millimeters
15.155.4	Pipe Flange H raised or flat face	
15.156	Height above uppermost continuous deck	0 Millimeters
15.157	Distance from ship side	0 Millimeters
15.158	Height above load waterline	0 Millimeters
15.159	Height above light waterline	0 Millimeters

28 MANIFOLD ARRANGEMENT LOCATED ON TOP OF COMPRESSOR

15.160	Distance from rail of compressor room/platform to presentation flanges	0 Millimeters
15.161	Distance from deck of compressor room/platform/try to centre of manifold	0 Millimeters

29 CARGO MANIFOLD REDUCERS

15.162.1	Number of ANSI Class 300 reducers carried onboard	0
15.162.2	Flange rating of ANSI Class 300 reducer	0 Bar
15.162.3	Size of ANSI Class 300 reducer	0 Millimeters
15.162.4	Length of ANSI Class 300 reducer	0 Millimeters
15.163.1	Number of ANSI Class 300 to Class 150 reducers carried onboard	0
15.163.2	Flange rating of ANSI Class 300 to Class 150 reducer	0 Bar
15.163.3	Size of ANSI Class 300 to Class 150 reducer	0 Millimeters
15.163.4	Length of ANSI Class 300 to Class 150 reducer	0 Millimeters
15.164.1	Number of ANSI Class 150 reducers carried onboard	0
15.164.2	Flange rating of Class 150 reducer	0 Bar
15.164.3	Size of ANSI Class 150 reducer	0 Millimeters
15.164.4	Length of ANSI Class 150 reducer	0 Millimeters

CHAPTER 16 CHAPTER 16

1 OBO / OO /COB CARRIERS

16.1	State design of hatches	
16.2	State type of hatches	

16.3	State if hatches fitted with single or double seals in hatch coaming
16.4	Last date cargo holds/tanks were tested to normal working pressure (min.500mm wg) to prove gas tightness of hatches
16.5	Were the hatches proven to be gas tight?