

**OCIMF Vessel Particulars Questionnaire HVPQ4****1 Chapter 1****1 GENERAL INFORMATION**

1.1:	Date this HVPQ document completed	Sunday, 11 Jan 2009
1.2:	Name of ship	HELLESPONT CREATION
1.3:	LR/IMO Number	9321122
1.4:	Last previous name	BREEZE
1.4.1:	Date of name change	Friday, 18 Apr 2008
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	Liberia
1.9:	Port of Registry	Monrovia
1.10:	If the flag has been changed, what was previous flag?	Not applicable
1.11:	Call sign	A8LX4
1.12:	INMARSAT number	764848362
1.13:	Ship's fax number	764848364
1.14:	Ship's telex number	463702079-CREA
1.15:	Mobile Phone Number	Not applicable
1.16:	Ship's Email address	bcrea@hellesponthammonia.de
1.17:	Type of ship	Chemical
1.18:	Vessel's MMSI No. (Maritime Mobile Selective Call Identity Code)	636091587
1.19:	Type of Hull	Double hull

**2 OWNERSHIP AND OPERATION**

1.20:	Name of the Registered Owner	MT " Hellespont Creation" GmbH & Co. KG
1.20.1:	Full address	Kaiser-Wilhelm-Str. 9, D-20355 Hamburg, Germany
1.20.2:	Office telephone number	<b>+49 40 27 86 21 31</b>
1.20.3:	Office telex number	Not applicable
1.20.4:	Office fax number	+ 49 40 27 86 21 30
1.20.5:	Office Email address	managers@hellesponthammonia.de
1.20.6:	Contact person	Capt. Heinrich Braun
1.20.7:	Contact person after hours telephone number	<b>+49 172 99 11 431</b>
1.21:	Number of years this ship has been owned by Registered Owner	1 Years
1.22:	Name of Technical Operator (if different from Registered Owner)	HELLESPONT HAMMONIA GmbH and Co. KG
1.22.1:	Full Address	Kaiser-Wilhelm -Str. 9, D-20355 Hamburg, Germany

1.22.2:	Office telephone number	<b>+49 40 27 86 21 31</b>
1.22.3:	Office telex number	Not applicable
1.22.4:	Office fax number	+49 40 27 86 21 30
1.22.5:	Office Email address	managers@hellesponthammonia.de
1.22.6:	Contact person (Designated Person Ashore)	Capt. Heinrich Braun
1.22.7:	Contact person after hours telephone number	<b>+ 49 172 99 11 431</b>
1.22.8:	Emergency callout number	<b>+49 40 226 25 266</b>
1.22.9:	Emergency callout pager number	
1.22.10:	Contact details for person responsible for oil spill response	Capt. Danezis Pavlos
1.23:	Number of years this vessel has been controlled by technical operator	1 Years
1.24:	Total number of ships operated by this Technical Operator	15
1.25:	Name of Commercial Operator (if different from Registered Owner)	Hellespont Hammonia GmbH and Co. KG
1.25.1:	Full Address	Kaiser-Wilhelm Str. 9 ,D-20355 Hamburg, Germany
1.25.2:	Office telephone number	<b>+49 40 27 86 21 31</b>
1.25.3:	Office telex number	Not applicable
1.25.4:	Office fax number	+49 40 27 86 21 30
1.25.5:	Office Email address	managers@hellesponthammonia.de
1.25.6:	Contact person	Capt. Matthias Imrece
1.25.7:	Contact person after hours telephone number	<b>+49 172 415 72 71</b>

### 3 BUILDER

1.26:	Builder	Sekwang Shipbuilding Co. LTD
1.27:	Date of building contract	Friday, 2 Jul 2004
1.28:	Hull number	KYH-102
1.29:	Date keel laid	Wednesday, 1 Jun 2005
1.30:	Date launched	Monday, 19 Mar 2007
1.31:	Date delivered	Monday, 9 Jul 2007
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	American Bureau of Shipping
1.35:	Class Notation	+A1(E), Chemical Carrier, Oil Carrier, (E), +AMS, VEC, ESP, CPP, CRC
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	Sunday, 8 Jul 2012
1.41:	Date of last special survey	Not applicable
1.42:	Was last special survey an enhanced special survey?	No
1.43:	Date next special survey due	Sunday, 8 Jul 2012
1.44:	If ship has Condition Assessment Programme (CAP) rating, what is the latest rating?	0

1.45:	Date of last annual survey	Saturday, 19 Apr 2008
1.46:	Date of last boiler survey - Port boiler	Not applicable
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)	128.6 Meters
1.50:	Length between perpendiculars (LBP)	120.4 Meters
1.51:	Extreme breadth	20.425 Meters
1.52:	Moulded breadth	20.4 Meters
1.53:	Moulded depth	11.5 Meters
1.54:	Keel to masthead	40.83 Meters
1.55:	Distance bow to bridge	100.2 Meters
1.56:	Distance bridge front - mid point manifold	39.21 Meters
1.57:	PARALLEL MID-BODY DIAGRAM	Not applicable
1.57.1:	Distance bow to mid-point manifold	63 Meters
1.57.2:	Distance stern to mid-point manifold	65.6 Meters
1.57.3:	Parallel body (light ship)	49 Meters
1.57.4:	Parallel body, forward to mid-point manifold (light ship)	24 Meters
1.57.5:	Parallel body, aft to mid-point manifold (light ship)	25 Meters
1.57.6:	Parallel body (normal ballast)	62 Meters
1.57.7:	Parallel body, forward to mid-point manifold (normal ballast)	30 Meters
1.57.8:	Parallel body, aft to mid-point manifold (normal ballast)	32 Meters
1.57.9:	Parallel body at loaded summer deadweight (SDWT)	72 Meters
1.57.10:	Parallel body, forward to mid-point manifold at loaded SDWT	34 Meters
1.57.11:	Parallel body, aft to mid-point manifold at loaded SDWT	38 Meters
1.58:	Does ship have a bulbous bow?	Yes

## 6 TONNAGES

1.59:	Net Registered Tonnage	4117 Tonnes
1.60:	Gross Tonnage	8515 Tonnes
1.61:	Suez Tonnage	
1.61.1:	Suez Canal Gross Tonnage (SCGT)	8960.18 Tonnes
1.61.2:	Suez Canal Net Tonnage (SCNT)	6845.31 Tonnes
1.62:	Panama Tonnage	7197 Tonnes

## 7 LOADLINE INFORMATION

1.63.1:	Summer Freeboard	2.812 Meters
1.63.2:	Summer Draft	8.714 Meters
1.63.3:	Summer Deadweight	13097.498 Tonnes
1.63.4:	Summer Displacement	17472.384 Tonnes
1.64.1:	Winter Freeboard	2.993 Meters
1.64.2:	Winter Draft	8.533 Meters
1.64.3:	Winter Deadweight	12677.240 Tonnes

1.64.4:	Winter Displacement	17052.126 Tonnes
1.65.1:	Tropical Freeboard	2.631 Meters
1.65.2:	Tropical Draft	8.895 Meters
1.65.3:	Tropical Deadweight	13518.524 Tonnes
1.65.4:	Tropical Displacement	17893.410 Tonnes
1.66.1:	Lightship Freeboard	9.044 Meters
1.66.2:	Lightship Draft	2.482 Meters
1.66.3:	Lightship Deadweight	
1.66.4:	Lightship Displacement	4374.886 Tonnes
1.67.1:	Normal Ballast Condition Freeboard	5.858 Meters
1.67.2:	Normal Ballast Condition Draft	5.674 Meters
1.67.3:	Normal Ballast Condition Deadweight	6465 Tonnes
1.67.4:	Normal Ballast Condition Displacement	10840 Tonnes
1.68.1:	Segregated Ballast Condition Freeboard	5.858 Meters
1.68.2:	Segregated Ballast Condition Draft	5.67 Meters
1.68.3:	Segregated Ballast Condition Deadweight	6465 Tonnes
1.68.4:	Segregated Ballast Condition Displacement	10840 Tonnes
1.69:	FWA at Summer Draft (Freeboard)	188 Millimeters
1.70:	TPC Immersion at Summer Draft (Freeboard)	23.24 Tonnes
1.71.1:	Draught Fore at normal ballast conditions (Freeboard)	4.575 Meters
1.71.2:	Draught Aft at normal ballast conditions (Draft)	6.814 Meters
1.72:	Does ship have Multiple SDWT ?	No
1.73:	If yes, what is maximum assigned Deadweight?	Not applicable
1.74:	What is the max. height of mast above waterline (air draft) in normal SBT condition?	35.156 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?	Yes
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?	No
1.78:	Has ship been involved in a grounding incident during the past 12 months?	No
1.79:	Has ship been involved in a collision during the past 12 months?	No

## 2 Chapter 2

### 1 CERTIFICATES

2.1:	Register Number	91587
2.2.1:	Safety Equipment Certificate (Issued)	Saturday, 19 Apr 2008
2.2.2:	Safety Equipment Certificate (Expires)	Sunday, 8 Jul 2012
2.2.3:	Safety Equipment Certificate (Last Annual)	Saturday, 19 Apr 2008
2.3.1:	Safety Radio Certificate (Issued)	Saturday, 19 Apr 2008

2.3.2:	Safety Radio Certificate (Expires)	Thursday, 12 Jul 2012
2.3.3:	Safety Radio Certificate (Last Annual)	Saturday, 19 Apr 2008
2.4.1:	Safety Construction Certificate (Issued)	Saturday, 19 Apr 2008
2.4.2:	Safety Construction Certificate (Expires)	Sunday, 8 Jul 2012
2.4.3:	Safety Construction Certificate (Last Annual)	Saturday, 19 Apr 2008
2.5.1:	Loadline Certificate (Issued)	Saturday, 19 Apr 2008
2.5.2:	Loadline Certificate (Expires)	Sunday, 8 Jul 2012
2.5.3:	Loadline Certificate (Last Annual)	Saturday, 19 Apr 2008
2.6.1:	International Oil Pollution Prevention Certificate (IOPPC) (Issued)	Saturday, 19 Apr 2008
2.6.2:	International Oil Pollution Prevention Certificate (IOPPC) (Expires)	Sunday, 8 Jul 2012
2.6.3:	International Oil Pollution Prevention Certificate (IOPPC) (Last Annual)	Saturday, 19 Apr 2008
2.7:	Type of Oil Tanker as specified by IOPPC Crude/Product (If not an oil tanker, specify)	Product Carrier
2.8.1:	Safety Management Certificate (Issued) (SMC)	Saturday, 11 Oct 2008
2.8.2:	Safety Management Certificate (Expires) (SMC)	Thursday, 10 Oct 2013
2.8.3:	Safety Management Certificate (Last Intermediate) (SMC)	Not applicable
2.9.1:	Document of Compliance (Issued) (DOC)	Thursday, 2 Oct 2008
2.9.2:	Document of Compliance (Expires) (DOC)	Tuesday, 1 Oct 2013
2.9.3:	Document of Compliance (Endorsed) (DOC)	Not applicable
2.10.1:	USCG Letter of Compliance (if applicable) (Issued)	Not applicable
2.10.2:	USCG Letter of Compliance (if applicable) (Expires)	Not applicable
2.10.3:	USCG Letter of Compliance (if applicable) (Last Annual)	Not applicable
2.11.1:	Date of last USCG Tank Vessel Examination Letter (TVEL) (Issued)	Not applicable
2.11.2:	Date of last USCG Tank Vessel Examination Letter (TVEL) (Expires)	Not applicable
2.12:	Minimum Safe Manning Certificate	Friday, 18 Apr 2008
2.13:	Civil Liability Convention Certificate (1969)	Not applicable
2.14:	Civil Liability Convention Certificate (1992)	Friday, 20 Feb 2009
2.15:	U.S. Certificate of Financial Responsibility	Not applicable
2.16:	Certificate of Fitness (Chemicals)	Sunday, 8 Jul 2012
2.17:	Certificate of Fitness (Gas)	Not applicable
2.18:	Noxious Liquids Certificate	Not applicable
2.19:	Unattended Machinery Space Certificate (Issued)	Not applicable
2.20:	International Tonnage Certificate (Issued)	Saturday, 19 Apr 2008

## 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
<b>3</b>	<b>FOR CHEMICAL TANKERS ONLY</b>	
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	Yes
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)	Yes
2.50:	Medical First Aid Guide for Use in Accidents involving Dangerous goods (MFAG)	Yes
2.51:	Procedures and Arrangements (P&A) Manual	Yes
<b>4</b>	<b>FOR GAS CARRIERS ONLY</b>	
2.52:	IMO Code for Construction & Equipment of Ships Carrying Liquefied Gases in Bulk (IGC Code)	Not applicable
2.53:	ICS Tanker Safety Guide (Liquefied Gas)	Not applicable
2.54:	SIGTTO Liquefied Gas Handling Principles on Ships and in Terminals	Not applicable
2.55:	SIGTTO Guide to Pressure Relief Valve Maintenance and Testing	Not applicable
2.56:	ICS Ship to Ship Transfer Guide (Liquefied Gases)	Not applicable
2.57:	IMO International Code for the Construction and Equipment of Ships Carrying Liquefied Gases in Bulk (IGC Code)	Not applicable
2.58:	IMO Code for Existing Ships Carrying Liquefied Gases in	Not applicable

Bulk (EGC Code)

### 3 Chapter 3

#### 1 CREW MANAGEMENT

3.1:	Minimum manning required (officers)	8
3.1.1:	Actual manning (officers)	9
3.1.2:	List Nationality of Officers	Filipino
3.1.3:	Master employed by (Vessel Operator)	Yes
3.1.4:	Officers employed by (Vessel Operator)	Yes
3.1.5:	Ratings employed by (Vessel Operator)	Yes
3.1.6:	Common language used (Vessel Operator)	ENGLISH
3.1.7:	Full name of Manning agent 1 (Officers)	Manila Shipmanagement & Manning
3.1.7.1:	Full address	Ground floor,Princess Building 104,Esteban str.,Legaspi Village,Makati city,Manila,Philippines
3.1.7.2:	Office telephone number	<b>+632 892 4071</b>
3.1.7.3:	Office telex number	
3.1.7.4:	Office fax number	+632 816 6993
3.1.7.5:	Office Email address	email@manship.com
3.1.8:	Are manning agent(s) wholly or partially owned by Operator?	Yes
3.1.9:	If No, does Operator have selection rights?	Not applicable
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)	8
3.2.1:	Actual manning (ratings)	13
3.2.2:	List Nationality of Ratings	Filipino
3.2.3:	Master employed by (Manning Agent)	No
3.2.4:	Officers employed by (Manning Agent)	No
3.2.5:	Ratings employed by (Manning Agent)	No
3.2.6:	Common language used (Manning Agent)	
3.2.7:	Full name of Manning agent 1 (Ratings)	Manila Shipmanagement & Manning
3.2.7.1:	Full address	Ground floor,Princess Building 104,Esteban str.,Legaspi Village,Makati city,Manila,Philippines
3.2.7.2:	Office telephone number	<b>+ 632 892 4071</b>
3.2.7.3:	Office telex number	
3.2.7.4:	Office fax number	+ 632 816 6993
3.2.7.5:	Office Email address	email@manship.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	<b>CONTINUITY</b>	
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	Yes

company fleet?

- 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.) - BRIDGE RESOURCE MANAGEMENT,- EXTENDED FIRE FIGHTING,- ADVANCED FIRE FIGHTING,- HAZARDOUS ATMOSPHERE MONITORING,- BRIDGE SIMULATION,- ENGINE SIMULATION
- 3.8: List Operator sponsored training courses available to ratings (Fire Fighting etc.) FIRE FIGHTING , Tanker Saftey, Watch Keeping , Survival at Sea
- 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? - BRIDGE RESOURCE MANAGEMENT,- HAZARDOUS ATMOSPHERE MONITORING,- EXTENDED FIRE FIGHTING,- BRIDGE/ENGINE SIMULATION
- 3.13: What courses, exceeding statutory requirements, are provided for junior officers? - ADVANCED FIRE FIGHTING,- HAZARDOUS ATMOSPHERE MONITORING
- 3.14: What courses, exceeding statutory requirements, are provided for ratings? - ADVANCED FIRE FIGHTING,

## 4 Chapter 4

### 1 NAVIGATION

- 4.1.1: Magnetic compass Yes
- 4.1.2: Magnetic compass (Type) SPERRY 2060
- 4.1.3: Magnetic compass (Number of Units) 1
- 4.2.1: Gyro compass Yes
- 4.2.2: Gyro compass (Type) YOKOGAWA MK-R050
- 4.2.3: Gyro compass (Number of Units) 1
- 4.3.1: Gyro Autopilot Yes
- 4.3.2: Gyro Autopilot (Type) YOKOGAWA PT 500
- 4.3.3: Gyro Autopilot (Number of Units) 1
- 4.4.1.1: Radar 1 Yes
- 4.4.1.2: Radar (Type) FURUNO F2105/2105B
- 4.4.1.3: Radar 1 (Number of Units) 1
- 4.4.2.1: Radar 2 Yes
- 4.4.2.2: Radar (Type) FURUNO F2105/2105B
- 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) Yes

	radars fitted with an electronic switching unit?	
4.7.1:	Radar plotting equipment	Yes
4.7.2:	Radar plotting equipment (Type)	FURUNO FR-2125
4.7.3:	Radar plotting equipment (Number of Units)	2
4.8.1:	Are the Radars fitted with ARPA?	Yes
4.8.2:	Type of ARPA	FURUNO FR-2135
4.8.3:	Number of ARPA Units installed	1
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)	FURUNO DS-830
4.10.3:	Speed/distance indicator (Number of Units)	1
4.11.1:	Doppler log	Yes
4.11.2:	Doppler log (Type)	FURUNO DS - 80
4.11.3:	Doppler log (Number of Units)	1
4.12.1:	Docking approach doppler	No
4.12.2:	Docking approach doppler (Type)	
4.12.3:	Docking approach doppler (Number of Units)	
4.13.1:	Rudder angle indicator	Yes
4.13.2:	Rudder angle indicator (Type)	HERIANA CO.36-200(1)/S0-200(2)
4.13.3:	Rudder angle indicator (Number of Units)	3
4.14.1:	RPM indicator	Yes
4.14.2:	RPM indicator (Type)	STOCK KWANT
4.14.3:	RPM indicator (Number of Units)	3
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	Yes
4.16.2:	Bow thruster indicator (Type)	FRAMO
4.16.3:	Bow thruster indicator (Number of Units)	3
4.17.1:	Stern Thrust indicator	No
4.17.2:	Stern Thrust indicator (Type)	
4.17.3:	Stern Thrust indicator (Number of Units)	
4.18.1:	Rate of turn indicator	No
4.18.2:	Rate of turn indicator (Type)	Not applicable
4.18.3:	Rate of turn indicator (Number of Units)	
4.19.1:	Radio direction finder	No
4.19.2:	Radio direction finder (Type)	Not applicable
4.19.3:	Radio direction finder (Number of Units)	
4.20.1:	Navtex receiver	Yes
4.20.2:	Navtex receiver (Type)	FURUNO NX-500
4.20.3:	Navtex receiver (Number of Units)	1

4.21.1:	Satellite navigation receiver	No
4.21.2:	Satellite navigation receiver (Type)	Not applicable
4.21.3:	Satellite navigation receiver (Number of Units)	
4.22.1:	Is the ship fitted with GPS?	Yes
4.22.2:	Type of GPS installed?	FURUNO GP-90-DUAL
4.22.3:	Number of GPS units installed?	1
4.23.1:	Is the ship fitted with Differential GPS?	Yes
4.23.2:	Type of Differential GPS installed?	FURUNO GP-90-DUAL
4.23.3:	Number of Differential GPS units installed?	1
4.24.1:	Is there an Electronic Chart Display?	Yes
4.24.2:	Is there an Electronic Chart Display? (Type)	FURUNO
4.24.3:	Is there an Electronic Chart Display? (Number of Units)	1
4.25:	Is the Electronic Chart Display incorporated into an approved ECDIS ?	Yes
4.26.1:	Integrated Navigation System (INS)	No
4.26.2:	Integrated Navigation System (INS) (Type)	
4.26.3:	Integrated Navigation System (INS) (Number of Units)	
4.27.1:	Decca navigator	No
4.27.2:	Decca navigator (Type)	
4.27.3:	Decca navigator (Number of Units)	
4.28.1:	Omega receiver	No
4.28.2:	Omega receiver (Type)	
4.28.3:	Omega receiver (Number of Units)	
4.29.1:	Loran C receiver	No
4.29.2:	Loran C receiver (Type)	
4.29.3:	Loran C receiver (Number of Units)	
4.30.1:	Course recorder	Yes
4.30.2:	Course recorder (Type)	YOKOGAWA MK-R101A
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)	YOKOGAWA MK-R050
4.31.1.3:	Off - course alarm - gyro (Number of Units)	1
4.31.2.1:	Off - course alarm - magnetic	No
4.31.2.2:	Off - course alarm - magnetic (Type)	
4.31.2.3:	Off - course alarm - magnetic (Number of Units)	
4.32.1:	Engine order printer	Yes
4.32.2:	Engine order printer (Type)	SEIKO PRECISION SP-2400
4.32.3:	Engine order printer (Number of Units)	1
4.33.1:	Anemometer	Yes
4.33.2:	Anemometer (Type)	HERIANA
4.33.3:	Anemometer (Number of Units)	1
4.34.1:	Weather fax	Yes
4.34.2:	Weather fax (Type)	FURUNO FAX-210
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

## 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?	ABS
5.1.3:	Date of vessel certification	Saturday, 19 Apr 2008

### 2 HELICOPTERS

5.2:	Can the ship comply with the ICS Helicopter Guidelines?	Not applicable
5.2.1:	If Yes, state whether winching or landing area provided	
5.2.2:	What is diameter of circle provided?	

### 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	Friday, 23 Mar 2007
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)?	CO2
5.8:	What type of fire fighting system is fitted in engine room (s)?	CO2 / WATER MIST
5.9:	What type of fire fighting system is fitted in void spaces(s)?	Not applicable
5.10:	Is a fixed dry powder firefighting system installed for the cargo area?	No
5.11:	Is a fixed water spray firefighting system installed for the cargo area?	Yes
5.12:	Is vessel equipped with recharging compressor for breathing apparatus?	Yes
5.13:	What type of lifeboat is fitted?	Freefall
5.14:	Is a dedicated rescue boat carried?	Yes
5.15:	The type of rescue boat is: Rigid/inflated/ rigid-inflated	Rigid

## 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?	230 Millimeters
6.1.2:	What is maximum vertical height above deck plating at aft thwartships coaming?	400 Millimeters
6.1.3:	How far forward is this height maintained?	1.8 Meters
6.2:	Is an athwartship deck coaming fitted adjacent to accommodation and service areas?	No
6.3:	What is the height of the coaming?	60 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 RUBBER
6.9:	Are means provided for draining or removing oil from deck area /containment?	Yes
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?	Not applicable
6.12:	What type of sea valves that are fitted.	Butterfly
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?	Not applicable
6.15:	Are overboard discharges fitted with blanks or alternatively, is there a testing arrangement for the overboard valves?	Yes
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	16.5 Bar
6.19:	Is garbage incinerator fitted?	Yes
<b>2</b>	<b>OPA 90 REQUIREMENTS</b>	
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?	Yes
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?	Yes
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'?	Yes

## 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	Whole Tank
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	MODIFIED EPOXY
7.3.2:	If ballast tanks are coated, specify to what extent	WHOLE TANKS
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?	ZINC
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)?	Yes
7.10.1:	Is PPM manual (card system) or computerised?	Computerised
7.10.2:	What areas of vessel does PPM cover?	All Ship
7.10.3:	Is PPM Class approved?	No

## 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?	Y
8.2.1:	If Yes, is bulkhead solid or perforated?	Solid
8.2.2:	Is vessel fitted with any full breadth ballast tanks?	No
8.2.3:	If Yes, how many ballast tanks are full breadth?	
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%)
8.3.2:	Centre Tank Number 2 Capacity (98%)
8.3.3:	Centre Tank Number 3 Capacity (98%)
8.3.4:	Centre Tank Number 4 Capacity (98%)
8.3.5:	Centre Tank Number 5 Capacity (98%)

8.3.6:	Centre Tank Number 6 Capacity (98%)	
8.3.7:	Centre Tank Number 7 Capacity (98%)	
8.3.8:	Centre Tank Number 8 Capacity (98%)	
8.3.9:	Centre Tank Number 9 Capacity (98%)	
8.3.10:	Centre Tank Number 10 Capacity (98%)	
8.3.11:	Centre Tank Number 11 Capacity (98%)	
8.3.12:	Centre Tank Number 12 Capacity (98%)	
8.3.13:	Centre Tank Number 13 Capacity (98%)	
8.3.14:	Centre Tank Number 14 Capacity (98%)	
8.3.15:	Centre Tank Number 15 Capacity (98%)	
8.3.16:	Wings (P & S combined) Number 1 Capacity (98%)	1860.203 Cu Meters
8.3.17:	Wings (P & S combined) Number 2 Capacity (98%)	2205.025 Cu Meters
8.3.18:	Wings (P & S combined) Number 3 Capacity (98%)	2414.44 Cu Meters
8.3.19:	Wings (P & S combined) Number 4 Capacity (98%)	2412.888 Cu Meters
8.3.20:	Wings (P & S combined) Number 5 Capacity (98%)	2409.828 Cu Meters
8.3.21:	Wings (P & S combined) Number 6 Capacity (98%)	Not applicable
8.3.22:	Wings (P & S combined) Number 7 Capacity (98%)	
8.3.23:	Wings (P & S combined) Number 8 Capacity (98%)	
8.3.24:	Wings (P & S combined) Number 9 Capacity (98%)	
8.3.25:	Wings (P & S combined) Number 10 Capacity (98%)	
8.3.26:	Wings (P & S combined) Number 11 Capacity (98%)	
8.3.27:	Wings (P & S combined) Number 12 Capacity (98%)	
8.3.28:	Wings (P & S combined) Number 13 Capacity (98%)	
8.3.29:	Wings (P & S combined) Number 14 Capacity (98%)	
8.3.30:	Wings (P & S combined) Number 15 Capacity (98%)	
8.4:	Centre Tank Total Capacity (98%)	
8.5:	Slops 1st Tank Capacity (98%)	343.447 Cu Meters
8.5.1:	Slops 2nd Tank Capacity (98%)	341.496 Cu Meters
8.6:	Wings (P & S combined) Total Capacity (98%)	13392.531 Cu Meters
8.7:	Slops 3rd tank Capacity (98%)	
8.7.1:	Slops 4th tank Capacity (98%)	
8.8:	Centre Tank Total Capacity (98%)	
8.9:	Wings (P & S combined) Total Capacity (98%)	13392.531 Cu Meters
8.10:	Grand Total Capacity (98%)	14077.474 Cu Meters

#### 4 BALLAST TANK CAPACITIES

8.11:	Ballast Capacities At 100% Full (M3)	
8.11.1.1:	Tank Number 1 (Identity)	FPT(C)
8.11.1.2:	Tank Number 1 (Capacity)	326.175 Cu Meters
8.11.2.1:	Tank Number 2 (Identity)	1 PS
8.11.2.2:	Tank Number 2 (Capacity)	1122.205 Cu Meters
8.11.3.1:	Tank Number 3 (Identity)	2 PS
8.11.3.2:	Tank Number 3 (Capacity)	760.607 Cu Meters
8.11.4.1:	Tank Number 4 (Identity)	3 PS

8.11.4.2:	Tank Number 4 (Capacity)	746.699 Cu Meters
8.11.5.1:	Tank Number 5 (Identity)	4 PS
8.11.5.2:	Tank Number 5 (Capacity)	748.042 Cu Meters
8.11.6.1:	Tank Number 6 (Identity)	5 PS
8.11.6.2:	Tank Number 6 (Capacity)	747.738 Cu Meters
8.11.7.1:	Tank Number 7 (Identity)	6 PS
8.11.7.2:	Tank Number 7 (Capacity)	702.773 Cu Meters
8.11.8.1:	Tank Number 8 (Identity)	APT
8.11.8.2:	Tank Number 8 (Capacity)	122.907 Cu Meters
8.11.9.1:	Tank Number 9 (Identity)	
8.11.9.2:	Tank Number 9 (Capacity)	
8.11.10.1:	Tank Number 10 (Identity)	
8.11.10.2:	Tank Number 10 (Capacity)	
8.11.11.1:	Tank Number 11 (Identity)	
8.11.11.2:	Tank Number 11 (Capacity)	
8.11.12.1:	Tank Number 12 (Identity)	
8.11.12.2:	Tank Number 12 (Capacity)	
8.11.13.1:	Tank Number 13 (Identity)	
8.11.13.2:	Tank Number 13 (Capacity)	
8.11.14:	Total Ballast Tank Capacities at 100% full	5277.15 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	Not applicable
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	Not applicable
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?	
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?	5277.15 Cu Meters
8.14.2:	What percentage of summer deadweight can vessel maintain with SBT only?	41 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?	Yes
8.14.5:	Is vessel equipped with spool piece designed to connect ballast system to cargo system?	No
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?	Yes
8.14.11:	If Yes, what is maximum attainable discharge rate?	1800 Cu Meter/Hour
8.14.12:	If Yes, what is maximum acceptable back pressure?	7 Bar
8.14.13:	Which cargo tanks are designated for heavy weather ballast as per IMO?	
8.14.13.1:	Tank Location	

## 8 CARGO HANDLING

8.15:	How many grades/products can vessel load/discharge with double valve segregation?	13
8.15.1:	How many grades can vessel load/discharge using blank flanges?	13
8.15.2:	If vessel is fitted with deepwell pumps and heat exchangers, can pumps and heat exchangers be by-passed during loading?	Yes
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)	
8.18.2:	Main Pump Number 1 (Number)	12
8.18.3:	Main Pump Number 1 (Type)	Centrifugal
8.18.4:	Main Pump Number 1 (Type of Prime Mover)	HYDRAULIC
8.18.5:	Main Pump Number 1 (Self Priming or Draining)	Self Priming
8.18.6:	Main Pump Number 1 (Capacity)	300 Cu Meter/Hour
8.18.7:	Main Pump Number 1 (Normal Back Pressure)	7 Bar
8.18.8:	Main Pump Number 1 (At what Head?)	110 Meters
8.18.9:	Main Pump Number 1 (Max RPM)	
8.19.1:	Main Pump Number 2 (Identity)	
8.19.2:	Main Pump Number 2 (Number)	2

8.19.3:	Main Pump Number 2 (Type)	Centrifugal
8.19.4:	Main Pump Number 2 (Type of Prime Mover)	HYDRAULIC
8.19.5:	Main Pump Number 2 (Self Priming or Draining)	Self Priming
8.19.6:	Main Pump Number 2 (Capacity)	100 Cu Meter/Hour
8.19.7:	Main Pump Number 2 (Normal Back Pressure)	7 Bar
8.19.8:	Main Pump Number 2 (At what Head?)	110 Meters
8.19.9:	Main Pump Number 2 (Max RPM)	
8.20.1:	Main Pump Number 3 (Identity)	PORTABLE
8.20.2:	Main Pump Number 3 (Number)	1
8.20.3:	Main Pump Number 3 (Type)	Centrifugal
8.20.4:	Main Pump Number 3 (Type of Prime Mover)	HYDRAULIC
8.20.5:	Main Pump Number 3 (Self Priming or Draining)	Self Priming
8.20.6:	Main Pump Number 3 (Capacity)	70 Cu Meter/Hour
8.20.7:	Main Pump Number 3 (Normal Back Pressure)	
8.20.8:	Main Pump Number 3 (At what Head?)	70 Meters
8.20.9:	Main Pump Number 3 (Max RPM)	
8.21.1:	Main Pump Number 4 (Identity)	
8.21.2:	Main Pump Number 4 (Number)	
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)	
8.21.7:	Main Pump Number 4 (Normal Back Pressure)	
8.21.8:	Main Pump Number 4 (At what Head?)	
8.21.9:	Main Pump Number 4 (Max RPM)	
8.22.1:	Main Pump Number 5 (Identity)	
8.22.2:	Main Pump Number 5 (Number)	
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)	
8.22.7:	Main Pump Number 5 (Normal Back Pressure)	
8.22.8:	Main Pump Number 5 (At what Head?)	
8.22.9:	Main Pump Number 5 (Max RPM)	
8.23.1:	Main Pump Number 6 (Identity)	
8.23.2:	Main Pump Number 6 (Number)	
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)	
8.23.7:	Main Pump Number 6 (Normal Back Pressure)	
8.23.8:	Main Pump Number 6 (At what Head?)	
8.23.9:	Main Pump Number 6 (Max RPM)	

8.24.1:	Main Pump Number 7 (Identity)	
8.24.2:	Main Pump Number 7 (Number)	
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)	
8.24.7:	Main Pump Number 7 (Normal Back Pressure)	
8.24.8:	Main Pump Number 7 (At what Head?)	
8.24.9:	Main Pump Number 7 (Max RPM)	
8.25.1:	Main Pump Number 8 (Identity)	
8.25.2:	Main Pump Number 8 (Number)	
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)	
8.25.7:	Main Pump Number 8 (Normal Back Pressure)	
8.25.8:	Main Pump Number 8 (At what Head?)	
8.25.9:	Main Pump Number 8 (Max RPM)	
8.26.1:	Booster Pumps (Number)	
8.26.2:	Booster Pumps (Type)	
8.26.3:	Booster Pumps (Type of Prime mover)	
8.26.4:	Booster Pumps (Capacity) (water)	
8.26.5:	Booster Pumps (Normal Back Pressure)	
8.26.6:	Booster Pumps (At what Head?)	
8.26.7:	Booster Pumps (RPM)	
8.26.8:	Booster Pumps (Max RPM)	
8.27.1:	Stripping (Number)	
8.27.2:	Stripping (Type)	
8.27.3:	Stripping (Type of Prime Mover)	
8.27.4:	Stripping (Capacity)	
8.27.5:	Stripping (Normal Back Pressure)	
8.27.6:	Stripping (At what Head?)	
8.28.1:	Eductors (Number)	
8.28.2:	Eductors (Type)	
8.28.3:	Eductors (Type of Prime Mover)	
8.28.4:	Eductors(Capacity)	
8.28.5:	Eductors(Normal Back Pressure)	
8.28.6:	Eductors(At what Head?)	
8.29.1:	Ballast Handling Main Pump (Number)	2
8.29.2:	Ballast Handling Main Pump (Type)	Centrifugal
8.29.3:	Ballast Handling Main Pump (Type of Prime Mover)	HYDRAULIC
8.29.4:	Ballast Handling Main Pump (Capacity)	350 Cu Meter/Hour
8.29.5:	Ballast Handling Main Pump (Normal Back Pressure)	7 Bar

8.29.6:	Ballast Handling Main Pump (At what Head?)	
8.29.7:	Ballast Handling Main Pump (Max RPM)	
8.30.1:	Ballast Handling Stripping (Number)	
8.30.2:	Ballast Handling Stripping (Type)	
8.30.3:	Ballast Handling Stripping (Type of Prime Mover)	
8.30.4:	Ballast Handling Stripping (Capacity)	
8.30.5:	Ballast Handling Stripping (At what Head?)	
8.31.1:	Ballast Handling Eductors (Number)	
8.31.2:	Ballast Handling Eductors (Type)	
8.31.3:	Ballast Handling Eductors (Type of Prime Mover)	
8.31.4:	Ballast Handling Eductors (Capacity)	
8.31.5:	Ballast Handling Eductors (At what Head?)	
8.32:	Is vessel fitted with dedicated stripping lines and pumps?	No
8.33:	State location of cargo pump emergency stops (i)	CARGO CONTROL
8.34:	State location of cargo pump emergency stops (ii)	ENGINE CONTROL ROOM
8.35:	State location of cargo pump emergency stops (iii)	MANIFOLDS PORT SIDE
8.36:	State location of cargo pump emergency stops (iv)	MANIFOLDS STBD SIDE
8.37:	State location of cargo pump emergency stops (v)	
8.38.1:	Are bearings of cargo pumps fitted with high temperature alarms?	No
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?	GLOBE
8.44:	What type of cargo valve actuator is fitted?	HAND

## 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
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?	No
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?	INTERTEK CALEBRETT
8.59.2:	If Yes, by whom are vapour locks certified?	ABS
8.60:	If portable equipment used for gauging who is manufacturer?	HERMETIC UTI METER
8.60.1:	If portable equipment used for gauging how many units are supplied?	3
8.60.2:	What is the name of the manufacturer of the vapour locks?	
8.61:	What is the nominal (internal) diameter of the vapour lock?	25 Millimeters
8.61.1:	To what standard is the thread of the vapour lock manufactured?	Quick Connect
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?	2" diameter 1 ltr volume
8.62:	Specify portable equipment for checking oil/water interface	HERMETIC UTIMETER
8.63:	Can cargo samples be taken at the manifold?	Yes
8.64:	What is the means of taking cargo temperatures?	SAAB TANK RADAR / UTI

**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?	ABS

**13 VENTING**

8.67:	State what type of venting system is fitted	Individual High Velocity Pressure vacuum Valve
8.68:	State maximum venting capacity	400 Cu Meter/Hour
8.69:	State P/V valve opening pressure	2100 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?	No
8.76:	If Yes, state opening pressure	Not applicable
8.77:	State vacuum setting of mast riser	Not applicable
8.78:	State throughput capacity of mast riser.	Not applicable
8.79:	What is the maximum loading rate for homogenous cargo?	1800 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
8.82:	If hydraulic valves fitted, what are closing times?	Not applicable
8.83:	What is the number of cargo connections per side?	14
8.84:	What is the size of cargo connections?	152 Millimeters
8.85:	Are pressure gauges fitted outboard of manifold valves?	Yes
8.86:	What is the material of the manifold?	STAINLESS STEEL
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)	Hard Piping

#### 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?	101.6 Millimeters

#### 16 MANIFOLD ARRANGEMENT

8.91:	Manifold Arrangement Diagram	null
8.92:	Distance A bunker manifold to cargo manifold	1300 Millimeters
8.93:	Distance B cargo manifold to cargo manifold	700 Millimeters
8.94:	Distance C cargo manifold to vapour return manifold	720 Millimeters
8.95:	Distance D manifolds to ship's rail	3950 Millimeters
8.96:	Distance E spill tank grating to centre of manifold	1600 Millimeters
8.97:	Distance F main deck to centre of manifold	3400 Millimeters
8.98:	Distance G maindeck to top of rail	1550 Millimeters
8.99:	Distance H top of rail to centre of manifold	1850 Millimeters
8.100:	Distance J manifold to ship side	4200 Millimeters
8.101:	What is the height of the manifold connections above the waterline at loaded (Summer Deadweight) condition?	5.49 Meters
8.102:	What is the height of the manifold connections above the	7.5 Meters

	waterline in normal ballast?	
8.103:	What is the distance between the keel and centre of manifold?	14.49 Meters
8.104:	Is vessel fitted with a stern manifold?	No
8.104.1:	If stern manifold fitted, state size	
8.105:	Is vessel fitted with a bow manifold?	No
8.105.1:	If bow manifold fitted, state size	
8.106.1:	Number of Reducers carried	2
8.106.2:	From Diameter	250 Millimeters
8.106.3:	To Diameter	200 Millimeters
8.107.1:	Number of Reducers carried	3
8.107.2:	From Diameter	250 Millimeters
8.107.3:	To Diameter	150 Millimeters
8.108.1:	Number of Reducers carried	2
8.108.2:	From Diameter	200 Millimeters
8.108.3:	To Diameter	150 Millimeters
8.109.1:	Number of Reducers carried	2
8.109.2:	From Diameter	150 Millimeters
8.109.3:	To Diameter	100 Millimeters
8.110.1:	Number of Reducers carried	1
8.110.2:	From Diameter	300 Millimeters
8.110.3:	To Diameter	250 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?	F.P.T & W.B.T & PUMPROOM
8.113:	Where are sensors/sampling points located in pumproom?	2 POINTS BOTTOM & DECK
8.113.1:	Are sensors/sampling points calibrated/tested?	Yes
8.113.2:	Who is responsible for testing sensors/sampling points?	CH.OFF.
8.114.1:	Portable and Personal gas detection equipment carried Item Number 1 (Name)	MULTIGAS DETECTOR
8.114.2:	Portable and Personal gas detection equipment carried Item 2 Number 1 (Number of units)	
8.115.1:	Portable and Personal gas detection equipment carried Item Number 2 (Name)	TANKSCOPE
8.115.2:	Portable and Personal gas detection equipment carried Item 2 Number 2 (Number of units)	
8.116.1:	Portable and Personal gas detection equipment carried Item Number 3 (Name)	DRAEGER
8.116.2:	Portable and Personal gas detection equipment carried Item 2 Number 3 (Number of units)	
8.117.1:	Portable and Personal gas detection equipment carried Item Number 4 (Name)	GAS DETECTOR
8.117.2:	Portable and Personal gas detection equipment carried Item 2 Number 4 (Number of units)	
8.118.1:	Portable and Personal gas detection equipment carried Item	OXYGEN ANALYSERS

Number 5 (Name)

8.118.2: Portable and Personal gas detection equipment carried Item 2  
Number 5 (Number of units)

8.119.1: Portable and Personal gas detection equipment carried Item  
Number 6 (Name)

8.119.2: Portable and Personal gas detection equipment carried Item  
Number 6 (Number of units)

## 18 CARGO HEATING

8.120: Are there coils in cargo tanks? Yes

8.121: State the Number of independent sets of coils per tank 2

8.122: Are all tanks coiled? Yes

8.123: What is the Height of coils above tank bottom? 120 Millimeters

8.124.1: Heating surface per tank

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? No

8.128: What is the Material of heating coils? SS

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

8.133.1: Able to raise temperature from 44 Degrees C

8.133.2: Able to raise temperature to 80 Degrees C

8.133.3: Time taken to raise temperature 96 Hours

8.134: Total capacity of boilers 12,000 KCal

## 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? Generator

9.4: Are fixed O2 alarms fitted in inert gas generating spaces? Yes

9.5: What is the capacity of the IGS? 2250 Cu Meter/Hour

9.6: How many fans does it have? 2

9.7: What is the total combined fan capacity? 2250 Cu Meter/Hour

9.8: Is a top-up IG generator fitted? No

9.8.1: If Yes, what is its capacity?

9.9: Is an IGS operating manual on board? No

9.10: What type of deck seal is fitted? Wet

9.11: How many segregations does the IGS have? 1

9.12: What method is used to isolate individual tanks? SLEUT VALVE

9.13:	What type of non-return valve is fitted?	FLAPS
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 ?	HIGH VELOCITY VENT VALVES,P/V BREAKER,INDEPENDENT ALARM SYSTEM,SLEUT VALVES.
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?	Port & Stbd MANIFOLDS
9.16.1:	What is the size of the emergency IGS connection?	203 Millimeters
9.17:	Is a Crude Oil Washing (COW) installation fitted? (If No, ignore remainder of this section)	No
9.18:	Are COW drive units fixed or portable?	Not applicable
9.19:	Are COW drive units programmable?	Not applicable
9.20:	Is vessel capable of performing COW at the same time as cargo discharge?	Not applicable
9.21:	Is there an approved COW Manual on board?	Not applicable
9.22:	What is the working pressure of the COW lines?	

## 10 Chapter 10

### 1 MOORING

10.1:	Does the vessel comply with the latest edition of OCIMF Mooring Equipment Guidelines?	Yes
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### 2 MOORING WIRES (ON DRUMS)

10.2.1:	Mooring Wires (On Drums) Forecastle (Number)
10.2.2:	Mooring Wires (On Drums) Forecastle (Diameter)
10.2.3:	Mooring Wires (On Drums) Forecastle (Material)
10.2.4:	Mooring Wires (On Drums) Forecastle (Length)
10.2.5:	Mooring Wires (On Drums) Forecastle (Breaking Strength)
10.3.1:	Mooring Wires (On Drums) Forward Main Deck (Number)
10.3.2:	Mooring Wires (On Drums) Forward Main Deck (Diameter)
10.3.3:	Mooring Wires (On Drums) Forward Main Deck (Material)
10.3.4:	Mooring Wires (On Drums) Forward Main Deck (Length)
10.3.5:	Mooring Wires (On Drums) Forward Main Deck (Breaking Strength)
10.4.1:	Mooring Wires (On Drums) Aft Main Deck (Number)
10.4.2:	Mooring Wires (On Drums) Aft Main Deck (Diameter)
10.4.3:	Mooring Wires (On Drums) Aft Main Deck (Material)
10.4.4:	Mooring Wires (On Drums) Aft Main Deck (Length)
10.4.5:	Mooring Wires (On Drums) Aft Main Deck (Breaking Strength)
10.5.1:	Mooring Wires (On Drums) Poop (Number)
10.5.2:	Mooring Wires (On Drums) Poop (Diameter)
10.5.3:	Mooring Wires (On Drums) Poop (Material)
10.5.4:	Mooring Wires (On Drums) Poop (Length)
10.5.5:	Mooring Wires (On Drums) Poop (Breaking Strength)

### 3

**MOORING WIRE TAILS**

10.6:	Type of shackle	Not applicable
10.7.1:	Mooring Wire Tails Forecastle (Number)	
10.7.2:	Mooring Wire Tails Forecastle (Diameter)	
10.7.3:	Mooring Wire Tails Forecastle (Material)	
10.7.4:	Mooring Wire Tails Forecastle (Length)	Not applicable
10.7.5:	Mooring Wire Tails Forecastle (Breaking Strength)	Not applicable
10.8.1:	Mooring Wire Tails Forward Main Deck (Number)	
10.8.2:	Mooring Wire Tails Forward Main Deck (Diameter)	
10.8.3:	Mooring Wire Tails Forward Main Deck (Material)	
10.8.4:	Mooring Wire Tails Forward Main Deck (Length)	
10.8.5:	Mooring Wire Tails Forward Main Deck (Breaking Strength)	
10.9.1:	Mooring Wire Tails Aft Main Deck (Number)	
10.9.2:	Mooring Wire Tails Aft Main Deck (Diameter)	
10.9.3:	Mooring Wire Tails Aft Main Deck (Material)	
10.9.4:	Mooring Wire Tails Aft Main Deck (Length)	
10.9.5:	Mooring Wire Tails Aft Main Deck (Breaking Strength)	
10.10.1:	Mooring Wire Tails Poop (Number)	
10.10.2:	Mooring Wire Tails Poop (Diameter)	
10.10.3:	Mooring Wire Tails Poop (Material)	
10.10.4:	Mooring Wire Tails Poop (Length)	
10.10.5:	Mooring Wire Tails Poop (Breaking Strength)	

**4 MOORING ROPES (ON DRUMS)**

10.11.1:	Mooring Ropes (On Drums) Forecastle (Number)	4
10.11.2:	Mooring Ropes (On Drums) Forecastle (Diameter)	65 Millimeters
10.11.3:	Mooring Ropes (On Drums) Forecastle (Material)	SUPERFLEX
10.11.4:	Mooring Ropes (On Drums) Forecastle (Length)	200 Meters
10.11.5:	Mooring Ropes (On Drums) Forecastle (Breaking Strength)	77 Tonnes
10.12.1:	Mooring Ropes (On Drums) Forward Main Deck (Number)	
10.12.2:	Mooring Ropes (On Drums) Forward Main Deck (Diameter)	
10.12.3:	Mooring Ropes (On Drums) Forward Main Deck (Material)	
10.12.4:	Mooring Ropes (On Drums) Forward Main Deck (Length)	
10.12.5:	Mooring Ropes (On Drums) Forward Main Deck (Breaking Strength)	
10.13.1:	Mooring Ropes (On Drums) Aft Main Deck (Number)	
10.13.2:	Mooring Ropes (On Drums) Aft Main Deck (Diameter)	
10.13.3:	Mooring Ropes (On Drums) Aft Main Deck (Material)	
10.13.4:	Mooring Ropes (On Drums) Aft Main Deck (Length)	
10.13.5:	Mooring Ropes (On Drums) Aft Main Deck (Breaking Strength)	
10.14.1:	Mooring Ropes (On Drums) Poop (Number)	4
10.14.2:	Mooring Ropes (On Drums) Poop (Diameter)	65 Millimeters
10.14.3:	Mooring Ropes (On Drums) Poop (Material)	SUPERFLEX
10.14.4:	Mooring Ropes (On Drums) Poop (Length)	200 Meters

10.14.5:	Mooring Ropes (On Drums) Poop (Breaking Strength)	77 Tonnes
<b>5</b>	<b>OTHER MOORING LINES</b>	
10.15.1:	Other Mooring Lines Forecastle (Number)	4
10.15.2:	Other Mooring Lines Forecastle (Diameter)	55 Millimeters
10.15.3:	Other Mooring Lines Forecastle (Material)	SUPERFLEX
10.15.4:	Other Mooring Lines Forecastle (Length)	200 Meters
10.15.5:	Other Mooring Lines Forecastle (Breaking Strength)	60 Tonnes
10.16.1:	Other Mooring Lines Forward Main Deck (Number)	
10.16.2:	Other Mooring Lines Forward Main Deck (Diameter)	
10.16.3:	Other Mooring Lines Forward Main Deck (Material)	
10.16.4:	Other Mooring Lines Forward Main Deck (Length)	
10.16.5:	Other Mooring Lines Forward Main Deck (Breaking Strength)	
10.17.1:	Other Mooring Lines Aft Main Deck (Number)	
10.17.2:	Other Mooring Lines Aft Main Deck (Diameter)	
10.17.3:	Other Mooring Lines Aft Main Deck (Material)	
10.17.4:	Other Mooring Lines Aft Main Deck (Length)	
10.17.5:	Other Mooring Lines Aft Main Deck (Breaking Strength)	
10.18.1:	Other Mooring Lines Poop (Number)	4
10.18.2:	Other Mooring Lines Poop (Diameter)	55 Millimeters
10.18.3:	Other Mooring Lines Poop (Material)	SUPERFLEX
10.18.4:	Other Mooring Lines Poop (Length)	200 Meters
10.18.5:	Other Mooring Lines Poop (Breaking Strength)	60 Tonnes
<b>6</b>	<b>SPARE MOORING WIRES</b>	
10.19.1:	Spare Mooring Wires (Identity 1)	
10.19.2:	Number (Identity 1)	
10.19.3:	Diameter (Identity 1)	
10.19.4:	Material (Identity 1)	
10.19.5:	Length (Identity 1)	
10.19.6:	Breaking Strength (Identity 1)	
10.19.1.1:	Spare Mooring Wires (Identity 2)	
10.19.1.2:	Number (Identity 2)	
10.19.1.3:	Diameter (Identity 2)	
10.19.1.4:	Material (Identity 2)	
10.19.1.5:	Length (Identity 2)	
10.19.1.6:	Breaking Strength (Identity 2)	
<b>7</b>	<b>SPARE MOORING ROPES</b>	
10.20.1:	Spare Mooring Ropes (Identity 1)	
10.20.2:	Number (Identity 1)	
10.20.3:	Diameter (Identity 1)	
10.20.4:	Material (Identity 1)	
10.20.5:	Length (Identity 1)	
10.20.6:	Breaking Strength (Identity 1)	

- 10.20.1.1: Spare Mooring Ropes (Identity 2)
- 10.20.1.2: Number (Identity 2)
- 10.20.1.3: Diameter (Identity 2)
- 10.20.1.4: Material (Identity 2)
- 10.20.1.5: Length (Identity 2)
- 10.20.1.6: Breaking Strength (Identity 2)

## 8 SPARE MOORING TAILS

- 10.21.1: Spare Mooring Tails (Identity 1)
- 10.21.2: Number (Identity 1)
- 10.21.3: Diameter (Identity 1)
- 10.21.4: Material (Identity 1)
- 10.21.5: Length (Identity 1)
- 10.21.6: Breaking Strength (Identity 1)
- 10.21.1.1: Spare Mooring Tails (Identity 2)
- 10.21.1.2: Number (Identity 2)
- 10.21.1.3: Diameter (Identity 2)
- 10.21.1.4: Material (Identity 2)
- 10.21.1.5: Length (Identity 2)
- 10.21.1.6: Breaking Strength (Identity 2)

## 9 MOORING WINCHES

- 10.22.1: Forecastle (Number) 2
- 10.22.2: Forecastle (Single Drum or Double Drums) Double Drums
- 10.22.3: Forecastle (Split Drums Y/N) Yes
- 10.22.4: Forecastle (Motive Power) Hydraulic
- 10.22.5: Forecastle (Heaving Power) 15 Tonnes
- 10.22.6: Forecastle (Brake Capacity) 32 Tonnes
- 10.22.7: Forecastle (Hauling Speed) 15 Meters/Minute
- 10.23.1: Forward Main Deck (Number)
- 10.23.2: Forward Main Deck (Single Drum or Double Drums)
- 10.23.3: Forward Main Deck (Split Drums Y/N) Not applicable
- 10.23.4: Forward Main Deck (Motive Power)
- 10.23.5: Forward Main Deck (Heaving Power)
- 10.23.6: Forward Main Deck (Brake Capacity)
- 10.23.7: Forward Main Deck (Hauling Speed)
- 10.24.1: Aft Main Deck (Number)
- 10.24.2: Aft Main Deck (Single Drum or Double Drums)
- 10.24.3: Aft Main Deck (Split Drums Y/N) Not applicable
- 10.24.4: Aft Main Deck (Motive Power)
- 10.24.5: Aft Main Deck (Heaving Power)
- 10.24.6: Aft Main Deck (Brake Capacity)
- 10.24.7: Aft Main Deck (Hauling Speed)
- 10.25.1: Poop (Number) 2
- 10.25.2: Poop (Single Drum or Double Drums) Double Drums

10.25.3:	Poop (Split Drums Y/N)	Yes
10.25.4:	Poop (Motive Power)	Hydraulic
10.25.5:	Poop (Heaving Power)	15 Tonnes
10.25.6:	Poop (Brake Capacity)	32 Tonnes
10.25.7:	Poop (Hauling Speed)	15 Meters/Minute
10.26:	What type of winch brakes are fitted?	BAND BRAKES
10.27:	Is brake testing equipment on board?	Yes
10.28:	When were the brakes last tested?	Tuesday, 5 Jun 2007

## 10 MOORING BITS

10.29:	How many sets of mooring bits are fitted on forecastle?	6
10.30:	How many sets of mooring bits are fitted on forward main deck?	6
10.31:	How many sets of mooring bits are fitted on aft main deck?	8
10.32:	How many sets of mooring bits are fitted on poop deck?	8
10.33:	Distance of mooring chock for breast/spring lines forward of center of manifold	
10.34:	Distance of mooring chock for breast/spring lines aft of center of manifold	

## 11 ANCHORS AND WINDLASS

10.35:	What is the motive power of the windlass?	HYDRAULIC
10.36:	What is the cable diameter?	60 Millimeters
10.37:	Number of shackles - port cable?	10
10.38:	Number of shackles - starboard cable?	10
10.39:	Are bitter end connections to both cables capable of being slipped?	Yes

## 12 EMERGENCY TOWING ARRANGEMNTS

10.40:	Is the vessel fitted with an Emergency Towing Arrangement? If no, ignore remainder of this section.	No
10.41.1:	Type of system (Forward)	
10.41.2:	Type of system (Aft)	
10.42.1:	Safe Working Load (SWL) of system (Forward)	
10.42.2:	Safe Working Load (SWL) of system (Aft)	
10.43.1:	Is pick-up gear provided? (Forward)	No
10.43.2:	Is pick-up gear provided? (Aft)	No
10.44.1:	Towing pennant length (Forward)	
10.44.2:	Towing pennant length (Aft)	
10.45.1:	Towing pennant diameter (Forward)	
10.45.2:	Towing pennant diameter (Aft)	
10.46.1:	Type of strong point (Smit bracket etc) (Forward)	
10.46.2:	Type of strong point (Smit bracket etc) (Aft)	
10.47.1:	Chafing chain size (Forward)	
10.47.2:	Chafing chain size (Aft)	
10.48.1:	Fairlead size (in format ABCmm x XYZmm) (Forward)	600
10.48.2:	Fairlead size (in format ABCmm x XYZmm) (Aft)	

10.49.1:	Is pedestal roller fitted? (Forward)	Not applicable
10.49.2:	Is pedestal roller fitted? (Aft)	Not applicable
10.50.1:	Is vessel provided with towing wire? (Forward)	Not applicable
10.50.2:	Is vessel provided with towing wire? (Aft)	No
10.50.1.1:	If Yes, what is the diameter of towing wire? (Forward)	
10.50.1.2:	If Yes, what is the diameter of towing wire? (Aft)	
10.50.2.1:	If Yes, what is the length of towing wire? (Forward)	
10.50.2.2:	If Yes, what is the length of towing wire? (Aft)	
10.52:	What is the number of bitts in the bow area?	
10.53:	What is the height of the bitts in the bow area?	
10.54:	What is the safe working load of the bitts in the bow area?	
10.55:	What is the distance between bow fairleads and nearest bitts?	
10.56:	Is the bow area clear of any obstructions which would hamper towing connections?	Not applicable

### 13 ESCORT TUG

10.57:	SWL of closed chock on stern	64 Tonnes
10.58:	SWL of bollard on poopdeck suitable for escort tug	42 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)'?	Not applicable
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)?	100 Tonnes
10.62:	What is the maximum size chain diameter the bow stopper (s) can handle?	54 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)	
10.64:	If two forward bow fairleads are fitted give distance between them	
10.65:	What is the distance between the bow fairlead and stopper/bracket?	1800 Millimeters
10.66:	What is the distance from the stopper bracket to roller lead/winch drum?	9.7 Meters
10.67:	Is there a direct lead from the bow stopper to the winch drum (not the warping end)?	No
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?	Yes

### 15 BOW MOORING ARRANGEMENT DIAGRAM

10.70:	Bow Mooring Arrangement Diagram	null
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**16 MANIFOLD ARRANGEMENT**

10.71:	Manifold Arrangement Diagram	null
10.72:	Distance K end of drip tray to center line of deck cleat	110 Millimeters
10.73:	Distance L spill tray to centre line of bollard	128 Millimeters
10.74:	Distance M length of bollard	130 Millimeters

**17 LIFTING EQUIPMENT**

10.75:	How many derricks does the vessel have?	
10.75.1:	What is their safe working load (SWL)?	
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	Wednesday, 23 May 2007
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?	2

**18 OTHER EQUIPMENT**

10.80:	Are accommodation ladders arranged to face aft when rigged?	Yes
10.81:	Does vessel have Suez Canal boat davits?	Yes
10.82:	Does vessel have Suez Canal projector?	Not applicable

**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	A1, A2, 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?	7
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:	FLEET 77-Mini M
11.12:	Can vessel transmit the helicopter homing signal on 410 KHz?	No

**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	
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?	1.2 Tonnes/Hour
12.5:	What type of fuel is used for main propulsion?	IFO 380CST
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?	No
12.9.1:	Is vessel operated in UMS mode?	No

**2 THRUSTERS**

12.10:	Is vessel fitted with a bow thruster?	Yes
12.10.1:	If Yes, give Brake Horse Power	670 BHP
12.11:	Is vessel fitted with a stern thruster?	No
12.11.1:	If Yes, give Brake Horse Power	
12.12:	Is vessel fitted with high angle rudder?	No
12.12.1:	If yes, what type	Not applicable

**3 GENERATORS**

12.13:	How many power generators are fitted?	3
12.13.1:	Indicate type of power generator(s)	Diesel
12.14:	What type of fuel is used in the generating plant?	IFO 380CST
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	3
12.17:	Operating pressure	30 Bar
12.18:	Motive power of emergency compressor	35 Cu Meter/Hour

**5 BUNKERS**

12.19.1:	Fuel Oil (Tank Name)	NO. 1 (P) F.O.T(P)
12.19.2:	Fuel Oil (Capacity)	261.11 Cu Meters
12.19.3:	Diesel Oil (Tank Name)	D.O.T (P)
12.19.4:	Diesel Oil (Capacity)	17.063 Cu Meters
12.19.5:	Gas Oil (Tank Name)	
12.19.6:	Gas Oil (Capacity)	
12.20.1:	Fuel Oil (Tank Name)	NO. 1 F.O.T (S)
12.20.2:	Fuel Oil (Capacity)	261.11 Cu Meters
12.20.3:	Diesel Oil (Tank Name)	D.O.T (S)

12.20.4:	Diesel Oil (Capacity)	27.39 Cu Meters
12.20.5:	Gas Oil (Tank Name)	
12.20.6:	Gas Oil (Capacity)	
12.21.1:	Fuel Oil (Tank Name)	NO. 2 F.O.T (P)
12.21.2:	Fuel Oil (Capacity)	51.803 Cu Meters
12.21.3:	Diesel Oil (Tank Name)	D.O SERV.(P)
12.21.4:	Diesel Oil (Capacity)	11.68 Cu Meters
12.21.5:	Gas Oil (Tank Name)	
12.21.6:	Gas Oil (Capacity)	
12.22.1:	Fuel Oil (Tank Name)	NO. 2 F.O.T (S)
12.22.2:	Fuel Oil (Capacity)	51.803 Cu Meters
12.22.3:	Diesel Oil (Tank Name)	
12.22.4:	Diesel Oil (Capacity)	
12.22.5:	Gas Oil (Tank Name)	
12.22.6:	Gas Oil (Capacity)	
12.23.1:	Fuel Oil (Tank Name)	H.F.O SERV (P)
12.23.2:	Fuel Oil (Capacity)	24.13 Cu Meters
12.23.3:	Diesel Oil (Tank Name)	
12.23.4:	Diesel Oil (Capacity)	
12.23.5:	Gas Oil (Tank Name)	
12.23.6:	Gas Oil (Capacity)	
12.24.1:	Fuel Oil (Tank Name)	H.F.O SETT.(P)
12.24.2:	Fuel Oil (Capacity)	24.08 Cu Meters
12.24.3:	Diesel Oil (Tank Name)	
12.24.4:	Diesel Oil (Capacity)	
12.24.5:	Gas Oil (Tank Name)	
12.24.6:	Gas Oil (Capacity)	
12.25.1:	Fuel Oil (Tank Name)	
12.25.2:	Fuel Oil (Capacity)	
12.25.3:	Diesel Oil (Tank Name)	
12.25.4:	Diesel Oil (Capacity)	
12.25.5:	Gas Oil (Tank Name)	
12.25.6:	Gas Oil (Capacity)	

## 6 STEERING GEAR

12.26:	What type of steering gear fitted?	CYLINDER
12.27:	How many motorized hydraulic pumps or motors fitted?	2
12.28:	How many telemotors fitted?	1
12.29:	Is an emergency rudder arrest/rudder control fitted?	Not applicable

## 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?	Yes
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

## 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? 15 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?

13.6: Are four (4) 200m x 40mm messenger lines available for Ship-To-Ship (STS) mooring operations? Not applicable

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

## 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? Yes

14.3: Are independent high level alarms fitted? Yes

14.4: Is a tank overflow control system fitted? Yes

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 Not applicable

14.6: Is the ship fitted with a fixed remote reading temperature system? Yes

14.7: Is the ship fitted with a fixed remote pressure gauging equipment? Yes

14.8: Specify other cargo measurement equipment available UTI METERS

14.9: Is an Efficient Stripping System fitted? Yes

14.9.1: Are independent stripping lines fitted? Yes

14.9.2: What is the material of stripping lines? SS

14.9.3: What is the diameter of the stripping lines? 25 Millimeters

### 2 IGS

14.10.1: (IGS) Composition of gas supplied by Oil Fired Generator

14.10.2: Nitrogen% 0 Percent

14.10.3: Carbon Dioxide % 14 Percent

14.10.4: Oxygen % 3 Percent

14.10.5:	Sulphur Dioxide %	0 Percent
14.10.6:	Carbon Monoxide %	
14.10.7:	Oxides of Nitrogen %	
14.10.8:	Dew Point degrees Celsius	6 Degrees C
14.11.1:	(IGS) Composition of gas supplied by	Oil Fired Generator
14.11.2:	Nitrogen%	
14.11.3:	Carbon Dioxide %	
14.11.4:	Oxygen %	
14.11.5:	Sulphur Dioxide %	
14.11.6:	Carbon Monoxide %	
14.11.7:	Oxides of Nitrogen %	
14.11.8:	Dew Point degrees Celsius	6 Degrees C
14.12:	Is Cargo Tank Drier fitted?	No
14.12.1:	If yes, manufacturer name	Not applicable
14.12.2:	Capacity	
14.13:	Is bottled Nitrogen available for deck use?	Yes
14.14:	Is steam available on deck?	Yes

### 3 TANK CONDITIONING

14.15:	Is there a fixed ventilation system?	Yes
14.15.1:	What is the Total capacity?	9600 Cu Meter/Hour
14.16:	Is the fixed ventilation system fitted with a dehumidifier ?	Not applicable
14.16.1:	What is the Total capacity?	
14.17:	Is there independent piping?	No
14.17.1:	Through cargo lines	Not applicable
14.17.2:	Portable fans	Yes
14.17.3:	Number:	4
14.17.4:	Type:	WATER DRIVEN
14.17.5:	Capacity (one)	7850 Cu Meter/Hour
14.18:	Are there gas freeing stand pipes?	Yes
14.18.1:	Portable:	Not applicable
14.18.2:	Fixed	Yes

### 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.?	Yes
14.20:	When required by the Chemical Code, is respiratory and eye protection for every person on board available for emergency escape purposes?	Yes
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)?	Yes
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	
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14.24.1.1:	Number (Port)	13
14.24.1.2:	Size (Port)	152.4 Millimeters
14.24.2.1:	Number (Starboard)	1
14.24.2.2:	Size (Starboard)	304.8 Millimeters
14.25:	Designed Max. loading rate	1800 Cu Meter/Hour
14.26:	Height of cargo vapour connections above keel	18.6 Meters
14.27:	Located on both sides?	Yes
14.28:	Is there an additional connection to cargo system on deck?	No
14.28.1:	If yes, position (distance from bow)	

## 6 CARGO AND OTHER MANIFOLD DIAGRAM

14.29:	Cargo and Other Manifold Diagram	null
14.30:	Dimension A	3400 Millimeters
14.31:	Dimension B	4200 Millimeters
14.32:	Dimension C	660 Millimeters
14.33:	Dimension D	720 Millimeters
14.34:	Dimension E	1580 Millimeters
14.35:	Dimension a	870 Millimeters
14.36:	Dimension b	1300 Millimeters
14.37:	Dimension x	800 Millimeters
14.38:	Dimension y	870 Millimeters
14.39:	Dimension z	650 Millimeters
14.40:	Dimension i	460 Meters
14.41:	Dimension ii	57600 Millimeters
14.42:	Dimension iii	3410 Millimeters

## 7 CARGO TANK PARTICULARS

14.43.1:	TANK NUMBER	NO.1(P)
14.43.2:	TANK LOCATION	
14.43.3:	IMO TYPE	2
14.43.4:	CAPACITY 100%	947.692 Cu Meters
14.43.5:	MAX. LOAD RATE	477 Cu Meter/Hour
14.43.6:	MAX. TANK PRESSURE	
14.43.7:	MAX. VENTING CAPACITY	
14.43.8:	PRESSURE MONITOR	No
14.43.9:	CARGO PUMP CAPACITY	300 Cu Meter/Hour
14.43.10:	STRIPPED ROB	32 Litres
14.43.11:	HEATING MAX. TEMP	80 Degrees C
14.43.12:	COOLING MIN. TEMP	
14.43.13:	CONSTRUCTION MATERIAL OR COATING	PR
14.43.14:	COATING DATE	
14.43.15:	HIGH LEVEL ALARM TYPE	Float
14.43.16:	HI/HI LEVEL ALARM TYPE	Float
14.43.17:	LEVEL GAUGE TYPE	F
14.43.18:	VAPOUR LOCKS DIAMETER	25.4 Millimeters

14.43.19:	CLOSED SAMPLE TYPE	YES
14.44.1:	TANK NUMBER	NO.1(S)
14.44.2:	TANK LOCATION	
14.44.3:	IMO TYPE	2
14.44.4:	CAPACITY 100%	947.902 Cu Meters
14.44.5:	MAX. LOAD RATE	477 Cu Meter/Hour
14.44.6:	MAX. TANK PRESSURE	
14.44.7:	MAX. VENTING CAPACITY	
14.44.8:	PRESSURE MONITOR	No
14.44.9:	CARGO PUMP CAPACITY	300 Cu Meter/Hour
14.44.10:	STRIPPED ROB	32 Litres
14.44.11:	HEATING MAX. TEMP	80 Degrees C
14.44.12:	COOLING MIN. TEMP	
14.44.13:	CONSTRUCTION MATERIAL OR COATING	PR
14.44.14:	COATING DATE	
14.44.15:	HIGH LEVEL ALARM TYPE	Float
14.44.16:	HI/HI LEVEL ALARM TYPE	Float
14.44.17:	LEVEL GAUGE TYPE	R
14.44.18:	VAPOUR LOCKS DIAMETER	25.4 Millimeters
14.44.19:	CLOSED SAMPLE TYPE	YES
14.45.1:	TANK NUMBER	NO.2(P)
14.45.2:	TANK LOCATION	
14.45.3:	IMO TYPE	2
14.45.4:	CAPACITY 100%	1126.383 Cu Meters
14.45.5:	MAX. LOAD RATE	477 Cu Meter/Hour
14.45.6:	MAX. TANK PRESSURE	
14.45.7:	MAX. VENTING CAPACITY	
14.45.8:	PRESSURE MONITOR	No
14.45.9:	CARGO PUMP CAPACITY	300 Cu Meter/Hour
14.45.10:	STRIPPED ROB	32 Litres
14.45.11:	HEATING MAX. TEMP	80 Degrees C
14.45.12:	COOLING MIN. TEMP	
14.45.13:	CONSTRUCTION MATERIAL OR COATING	PR
14.45.14:	COATING DATE	
14.45.15:	HIGH LEVEL ALARM TYPE	Float
14.45.16:	HI/HI LEVEL ALARM TYPE	Float
14.45.17:	LEVEL GAUGE TYPE	R
14.45.18:	VAPOUR LOCKS DIAMETER	25.4 Millimeters
14.45.19:	CLOSED SAMPLE TYPE	YES
14.46.1:	TANK NUMBER	NO.2(S)
14.46.2:	TANK LOCATION	
14.46.3:	IMO TYPE	2
14.46.4:	CAPACITY 100%	1126.002 Cu Meters

14.46.5:	MAX. LOAD RATE	477 Cu Meter/Hour
14.46.6:	MAX. TANK PRESSURE	
14.46.7:	MAX. VENTING CAPACITY	
14.46.8:	PRESSURE MONITOR	No
14.46.9:	CARGO PUMP CAPACITY	300 Cu Meter/Hour
14.46.10:	STRIPPED ROB	32 Litres
14.46.11:	HEATING MAX. TEMP	80 Degrees C
14.46.12:	COOLING MIN. TEMP	
14.46.13:	CONSTRUCTION MATERIAL OR COATING	PR
14.46.14:	COATING DATE	
14.46.15:	HIGH LEVEL ALARM TYPE	Float
14.46.16:	HI/HI LEVEL ALARM TYPE	Float
14.46.17:	LEVEL GAUGE TYPE	R
14.46.18:	VAPOUR LOCKS DIAMETER	25.4 Millimeters
14.46.19:	CLOSED SAMPLE TYPE	YES
14.47.1:	TANK NUMBER	NO.3(P)
14.47.2:	TANK LOCATION	
14.47.3:	IMO TYPE	2
14.47.4:	CAPACITY 100%	1232.26 Cu Meters
14.47.5:	MAX. LOAD RATE	477 Cu Meter/Hour
14.47.6:	MAX. TANK PRESSURE	
14.47.7:	MAX. VENTING CAPACITY	
14.47.8:	PRESSURE MONITOR	No
14.47.9:	CARGO PUMP CAPACITY	300 Cu Meter/Hour
14.47.10:	STRIPPED ROB	32 Litres
14.47.11:	HEATING MAX. TEMP	80 Degrees C
14.47.12:	COOLING MIN. TEMP	
14.47.13:	CONSTRUCTION MATERIAL OR COATING	PR
14.47.14:	COATING DATE	
14.47.15:	HIGH LEVEL ALARM TYPE	Float
14.47.16:	HI/HI LEVEL ALARM TYPE	Float
14.47.17:	LEVEL GAUGE TYPE	RADAR
14.47.18:	VAPOUR LOCKS DIAMETER	25.4 Millimeters
14.47.19:	CLOSED SAMPLE TYPE	YES
14.48.1:	TANK NUMBER	NO.3(S)
14.48.2:	TANK LOCATION	
14.48.3:	IMO TYPE	2
14.48.4:	CAPACITY 100%	1230.253 Cu Meters
14.48.5:	MAX. LOAD RATE	477 Cu Meter/Hour
14.48.6:	MAX. TANK PRESSURE	
14.48.7:	MAX. VENTING CAPACITY	
14.48.8:	PRESSURE MONITOR	No
14.48.9:	CARGO PUMP CAPACITY	300 Cu Meter/Hour

14.48.10:	STRIPPED ROB	32 Litres
14.48.11:	HEATING MAX. TEMP	
14.48.12:	COOLING MIN. TEMP	80 Degrees C
14.48.13:	CONSTRUCTION MATERIAL OR COATING	PR
14.48.14:	COATING DATE	
14.48.15:	HIGH LEVEL ALARM TYPE	Float
14.48.16:	HI/HI LEVEL ALARM TYPE	Float
14.48.17:	LEVEL GAUGE TYPE	R
14.48.18:	VAPOUR LOCKS DIAMETER	25.4 Millimeters
14.48.19:	CLOSED SAMPLE TYPE	YES
14.49.1:	TANK NUMBER	NO.4(P)
14.49.2:	TANK LOCATION	
14.49.3:	IMO TYPE	2
14.49.4:	CAPACITY 100%	1231.971 Cu Meters
14.49.5:	MAX. LOAD RATE	477 Cu Meter/Hour
14.49.6:	MAX. TANK PRESSURE	
14.49.7:	MAX. VENTING CAPACITY	
14.49.8:	PRESSURE MONITOR	No
14.49.9:	CARGO PUMP CAPACITY	300 Cu Meter/Hour
14.49.10:	STRIPPED ROB	32 Litres
14.49.11:	HEATING MAX. TEMP	80 Degrees C
14.49.12:	COOLING MIN. TEMP	
14.49.13:	CONSTRUCTION MATERIAL OR COATING	PR
14.49.14:	COATING DATE	
14.49.15:	HIGH LEVEL ALARM TYPE	Float
14.49.16:	HI/HI LEVEL ALARM TYPE	Float
14.49.17:	LEVEL GAUGE TYPE	R
14.49.18:	VAPOUR LOCKS DIAMETER	25.4 Millimeters
14.49.19:	CLOSED SAMPLE TYPE	YES
14.50.1:	TANK NUMBER	NO.4(S)
14.50.2:	TANK LOCATION	
14.50.3:	IMO TYPE	2
14.50.4:	CAPACITY 100%	1231.769 Cu Meters
14.50.5:	MAX. LOAD RATE	477 Cu Meter/Hour
14.50.6:	MAX. TANK PRESSURE	
14.50.7:	MAX. VENTING CAPACITY	
14.50.8:	PRESSURE MONITOR	No
14.50.9:	CARGO PUMP CAPACITY	300 Cu Meter/Hour
14.50.10:	STRIPPED ROB	32 Litres
14.50.11:	HEATING MAX. TEMP	80 Degrees C
14.50.12:	COOLING MIN. TEMP	
14.50.13:	CONSTRUCTION MATERIAL OR COATING	PR
14.50.14:	COATING DATE	

14.50.15:	HIGH LEVEL ALARM TYPE	Float
14.50.16:	HI/HI LEVEL ALARM TYPE	Float
14.50.17:	LEVEL GAUGE TYPE	R
14.50.18:	VAPOUR LOCKS DIAMETER	25.4 Millimeters
14.50.19:	CLOSED SAMPLE TYPE	YES
14.51.1:	TANK NUMBER	NO.5(P)
14.51.2:	TANK LOCATION	
14.51.3:	IMO TYPE	2
14.51.4:	CAPACITY 100%	1232.365 Cu Meters
14.51.5:	MAX. LOAD RATE	477 Cu Meter/Hour
14.51.6:	MAX. TANK PRESSURE	
14.51.7:	MAX. VENTING CAPACITY	
14.51.8:	PRESSURE MONITOR	No
14.51.9:	CARGO PUMP CAPACITY	300 Cu Meter/Hour
14.51.10:	STRIPPED ROB	32 Litres
14.51.11:	HEATING MAX. TEMP	80 Degrees C
14.51.12:	COOLING MIN. TEMP	
14.51.13:	CONSTRUCTION MATERIAL OR COATING	PR
14.51.14:	COATING DATE	
14.51.15:	HIGH LEVEL ALARM TYPE	Float
14.51.16:	HI/HI LEVEL ALARM TYPE	Float
14.51.17:	LEVEL GAUGE TYPE	R
14.51.18:	VAPOUR LOCKS DIAMETER	25.4 Millimeters
14.51.19:	CLOSED SAMPLE TYPE	YES
14.52.1:	TANK NUMBER	NO.5(S)
14.52.2:	TANK LOCATION	
14.52.3:	IMO TYPE	2
14.52.4:	CAPACITY 100%	1232.434 Cu Meters
14.52.5:	MAX. LOAD RATE	477 Cu Meter/Hour
14.52.6:	MAX. TANK PRESSURE	
14.52.7:	MAX. VENTING CAPACITY	
14.52.8:	PRESSURE MONITOR	No
14.52.9:	CARGO PUMP CAPACITY	300 Cu Meter/Hour
14.52.10:	STRIPPED ROB	32 Litres
14.52.11:	HEATING MAX. TEMP	80 Degrees C
14.52.12:	COOLING MIN. TEMP	
14.52.13:	CONSTRUCTION MATERIAL OR COATING	PR
14.52.14:	COATING DATE	
14.52.15:	HIGH LEVEL ALARM TYPE	Float
14.52.16:	HI/HI LEVEL ALARM TYPE	Float
14.52.17:	LEVEL GAUGE TYPE	R
14.52.18:	VAPOUR LOCKS DIAMETER	25.4 Millimeters
14.52.19:	CLOSED SAMPLE TYPE	YES

14.53.1:	TANK NUMBER	NO.6(P)
14.53.2:	TANK LOCATION	
14.53.3:	IMO TYPE	2
14.53.4:	CAPACITY 100%	1066.799 Cu Meters
14.53.5:	MAX. LOAD RATE	477 Cu Meter/Hour
14.53.6:	MAX. TANK PRESSURE	
14.53.7:	MAX. VENTING CAPACITY	
14.53.8:	PRESSURE MONITOR	No
14.53.9:	CARGO PUMP CAPACITY	300 Cu Meter/Hour
14.53.10:	STRIPPED ROB	32 Litres
14.53.11:	HEATING MAX. TEMP	80 Degrees C
14.53.12:	COOLING MIN. TEMP	
14.53.13:	CONSTRUCTION MATERIAL OR COATING	PR
14.53.14:	COATING DATE	
14.53.15:	HIGH LEVEL ALARM TYPE	Float
14.53.16:	HI/HI LEVEL ALARM TYPE	Float
14.53.17:	LEVEL GAUGE TYPE	R
14.53.18:	VAPOUR LOCKS DIAMETER	25.4 Millimeters
14.53.19:	CLOSED SAMPLE TYPE	YES
14.54.1:	TANK NUMBER	NO.6(S)
14.54.2:	TANK LOCATION	
14.54.3:	IMO TYPE	2
14.54.4:	CAPACITY 100%	1067.67 Cu Meters
14.54.5:	MAX. LOAD RATE	477 Cu Meter/Hour
14.54.6:	MAX. TANK PRESSURE	
14.54.7:	MAX. VENTING CAPACITY	
14.54.8:	PRESSURE MONITOR	No
14.54.9:	CARGO PUMP CAPACITY	300 Cu Meter/Hour
14.54.10:	STRIPPED ROB	32 Litres
14.54.11:	HEATING MAX. TEMP	80 Degrees C
14.54.12:	COOLING MIN. TEMP	
14.54.13:	CONSTRUCTION MATERIAL OR COATING	PR
14.54.14:	COATING DATE	
14.54.15:	HIGH LEVEL ALARM TYPE	Float
14.54.16:	HI/HI LEVEL ALARM TYPE	Float
14.54.17:	LEVEL GAUGE TYPE	R
14.54.18:	VAPOUR LOCKS DIAMETER	25.4 Millimeters
14.54.19:	CLOSED SAMPLE TYPE	YES
14.55.1:	TANK NUMBER	SLOP (P)
14.55.2:	TANK LOCATION	
14.55.3:	IMO TYPE	2
14.55.4:	CAPACITY 100%	348.558 Cu Meters
14.55.5:	MAX. LOAD RATE	477 Cu Meter/Hour

14.55.6:	MAX. TANK PRESSURE	
14.55.7:	MAX. VENTING CAPACITY	
14.55.8:	PRESSURE MONITOR	No
14.55.9:	CARGO PUMP CAPACITY	100 Cu Meter/Hour
14.55.10:	STRIPPED ROB	32 Litres
14.55.11:	HEATING MAX. TEMP	80 Degrees C
14.55.12:	COOLING MIN. TEMP	
14.55.13:	CONSTRUCTION MATERIAL OR COATING	PR
14.55.14:	COATING DATE	
14.55.15:	HIGH LEVEL ALARM TYPE	Float
14.55.16:	HI/HI LEVEL ALARM TYPE	Float
14.55.17:	LEVEL GAUGE TYPE	R
14.55.18:	VAPOUR LOCKS DIAMETER	25.4 Millimeters
14.55.19:	CLOSED SAMPLE TYPE	YES
14.56.1:	TANK NUMBER	SLOP(S)
14.56.2:	TANK LOCATION	
14.56.3:	IMO TYPE	2
14.56.4:	CAPACITY 100%	348.616 Cu Meters
14.56.5:	MAX. LOAD RATE	477 Cu Meter/Hour
14.56.6:	MAX. TANK PRESSURE	
14.56.7:	MAX. VENTING CAPACITY	
14.56.8:	PRESSURE MONITOR	No
14.56.9:	CARGO PUMP CAPACITY	100 Cu Meter/Hour
14.56.10:	STRIPPED ROB	32 Litres
14.56.11:	HEATING MAX. TEMP	80 Degrees C
14.56.12:	COOLING MIN. TEMP	
14.56.13:	CONSTRUCTION MATERIAL OR COATING	PR
14.56.14:	COATING DATE	
14.56.15:	HIGH LEVEL ALARM TYPE	Float
14.56.16:	HI/HI LEVEL ALARM TYPE	Float
14.56.17:	LEVEL GAUGE TYPE	R
14.56.18:	VAPOUR LOCKS DIAMETER	25.4 Millimeters
14.56.19:	CLOSED SAMPLE TYPE	YES
14.57.1:	TANK NUMBER	
14.57.2:	TANK LOCATION	
14.57.3:	IMO TYPE	
14.57.4:	CAPACITY 100%	
14.57.5:	MAX. LOAD RATE	
14.57.6:	MAX. TANK PRESSURE	
14.57.7:	MAX. VENTING CAPACITY	
14.57.8:	PRESSURE MONITOR	No
14.57.9:	CARGO PUMP CAPACITY	
14.57.10:	STRIPPED ROB	

14.57.11: HEATING MAX. TEMP  
14.57.12: COOLING MIN. TEMP  
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  
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%  
14.58.5: MAX. LOAD RATE  
14.58.6: MAX. TANK PRESSURE  
14.58.7: MAX. VENTING CAPACITY  
14.58.8: PRESSURE MONITOR  
14.58.9: CARGO PUMP CAPACITY  
14.58.10: STRIPPED ROB  
14.58.11: HEATING MAX. TEMP  
14.58.12: COOLING MIN. TEMP  
14.58.13: CONSTRUCTION MATERIAL OR COATING  
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14.60.2: TANK LOCATION  
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14.60.6: MAX. TANK PRESSURE  
14.60.7: MAX. VENTING CAPACITY  
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14.60.19: CLOSED SAMPLE TYPE  
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14.61.6: MAX. TANK PRESSURE  
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14.61.9: CARGO PUMP CAPACITY  
14.61.10: STRIPPED ROB  
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14.61.12: COOLING MIN. TEMP  
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14.61.17: LEVEL GAUGE TYPE  
14.61.18: VAPOUR LOCKS DIAMETER  
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%  
14.62.5: MAX. LOAD RATE  
14.62.6: MAX. TANK PRESSURE  
14.62.7: MAX. VENTING CAPACITY  
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14.63.7: MAX. VENTING CAPACITY  
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14.64.2: TANK LOCATION  
14.64.3: IMO TYPE  
14.64.4: CAPACITY 100%  
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14.64.6: MAX. TANK PRESSURE

14.64.7: MAX. VENTING CAPACITY  
 14.64.8: PRESSURE MONITOR  
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 14.64.16: HI/HI LEVEL ALARM TYPE  
 14.64.17: LEVEL GAUGE TYPE  
 14.64.18: VAPOUR LOCKS DIAMETER  
 14.64.19: CLOSED SAMPLE TYPE

## 8 BALLAST TANK CAPACITIES

14.65.1:	TANK NUMBER	F.P.T
14.65.2:	TANK LOCATION	Center
14.65.3:	COATING DATE	
14.65.4:	CAPACITY	326.175 Cu Meter/Hour
14.66.1:	TANK NUMBER	NO.1 W.B.T (P)
14.66.2:	TANK LOCATION	
14.66.3:	COATING DATE	
14.66.4:	CAPACITY	572.049 Cu Meter/Hour
14.67.1:	TANK NUMBER	NO.1 W.B.T (S)
14.67.2:	TANK LOCATION	
14.67.3:	COATING DATE	
14.67.4:	CAPACITY	550.156 Cu Meter/Hour
14.68.1:	TANK NUMBER	NO.2 W.B.T (P)
14.68.2:	TANK LOCATION	
14.68.3:	COATING DATE	
14.68.4:	CAPACITY	370.921 Cu Meter/Hour
14.69.1:	TANK NUMBER	NO.2 W.B.T (S)
14.69.2:	TANK LOCATION	
14.69.3:	COATING DATE	
14.69.4:	CAPACITY	389.686 Cu Meter/Hour
14.70.1:	TANK NUMBER	NO.3 W.B.T (P)
14.70.2:	TANK LOCATION	
14.70.3:	COATING DATE	
14.70.4:	CAPACITY	383.253 Cu Meter/Hour
14.71.1:	TANK NUMBER	NO.3 W.B.T(S)
14.71.2:	TANK LOCATION	
14.71.3:	COATING DATE	
14.71.4:	CAPACITY	363.446 Cu Meter/Hour
14.72.1:	TANK NUMBER	NO.4 W.B.T (P)

14.72.2:	TANK LOCATION	
14.72.3:	COATING DATE	
14.72.4:	CAPACITY	364.117 Cu Meter/Hour
14.73.1:	TANK NUMBER	NO.4 W.B.T (S)
14.73.2:	TANK LOCATION	
14.73.3:	COATING DATE	
14.73.4:	CAPACITY	383.925 Cu Meter/Hour
14.74.1:	TANK NUMBER	NO.5 W.B.T (P)
14.74.2:	TANK LOCATION	
14.74.3:	COATING DATE	
14.74.4:	CAPACITY	383.773 Cu Meter/Hour
14.75.1:	TANK NUMBER	NO.5 W.B.T (S)
14.75.2:	TANK LOCATION	
14.75.3:	COATING DATE	
14.75.4:	CAPACITY	363.965 Cu Meter/Hour
14.76.1:	TANK NUMBER	NO.6 W.B.T (P)
14.76.2:	TANK LOCATION	
14.76.3:	COATING DATE	
14.76.4:	CAPACITY	339.519 Cu Meter/Hour
14.77.1:	TANK NUMBER	NO.6 W.B.T (S)
14.77.2:	TANK LOCATION	
14.77.3:	COATING DATE	
14.77.4:	CAPACITY	363.254 Cu Meter/Hour
14.78.1:	TANK NUMBER	A.P.T
14.78.2:	TANK LOCATION	Center
14.78.3:	COATING DATE	
14.78.4:	CAPACITY	122.907 Cu Meter/Hour
14.79.1:	TANK NUMBER	
14.79.2:	TANK LOCATION	
14.79.3:	COATING DATE	
14.79.4:	CAPACITY	
14.80.1:	TANK NUMBER	
14.80.2:	TANK LOCATION	
14.80.3:	COATING DATE	
14.80.4:	CAPACITY	
14.81.1:	TANK NUMBER	
14.81.2:	TANK LOCATION	
14.81.3:	COATING DATE	
14.81.4:	CAPACITY	
14.82.1:	TANK NUMBER	
14.82.2:	TANK LOCATION	
14.82.3:	COATING DATE	
14.82.4:	CAPACITY	

14.83.1: TANK NUMBER  
 14.83.2: TANK LOCATION  
 14.83.3: COATING DATE  
 14.83.4: CAPACITY  
 14.84.1: TANK NUMBER  
 14.84.2: TANK LOCATION  
 14.84.3: COATING DATE  
 14.84.4: CAPACITY  
 14.85.1: TANK NUMBER  
 14.85.2: TANK LOCATION  
 14.85.3: COATING DATE  
 14.85.4: CAPACITY  
 14.86: TOTAL CAPACITY 5277.15 Cu Meter/Hour

## 9 TANK CLEANING SYSTEM

14.87: Is tank cleaning equipment fixed in cargo tanks? Yes  
 14.88: Is portable tank cleaning equipment available? Yes  
 14.89: What is the capacity of one tank cleaning machine? 10 Cu Meter/Hour  
 14.89.1: At pressure of: 8 Bar  
 14.89.2: Duration of complete cycle 40 Minutes  
 14.89.3: Nozzle diameter 10 Millimeters  
 14.90: Tank washing pump capacity 100 Cu Meter/Hour  
 14.91: Is a washing water heater fitted? Yes  
 14.91.1: What is the Max. washing water temperature? 80 Degrees C  
 14.92: Maximum number of machines operative at pressure above 5  
 14.93: Where there is different type of equipment used, what is the capacity and type of equipment? PORTABLE 15 CUB./HR

## 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'? No

### 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?  
 15.5: What is the Maximum Permissible tank pressure?  
 15.6: Lowest permissible cargo tank pressure  
 15.7: What are the Number of grades that can be loaded/ carried/discharged simultaneously and completely segregated without risk of contamination?  
 15.8: What is the Number of Products that can be conditioned by reliquefaction simultaneously?

- 15.9: State the number of natural segregations (NB: Separation must be by the removal of spools or the insertion of blanks)
- 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
- 15.17: IMO Setting
- 15.18: USCG Setting
- 15.19: Safety valve set pressure - if variable give range of pilot valves
- 15.19.1: If variable give range of pilot valves - from:
- 15.19.2: If variable give range of pilot valves - to:
- 15.20: Maximum Vacuum
- 15.21: Maximum cargo density
- 15.22: Maximum rate of cool down
- 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%)
- 15.25.2: Tank 1 Butane Tonnes
- 15.25.3: Tank 1 Butane degrees C
- 15.25.4: Tank 1 Propane Tonnes
- 15.25.5: Tank 1 Propane degrees C
- 15.25.6: Tank 1 Ammonia Tonnes
- 15.25.7: Tank 1 Ammonia degrees C
- 15.25.7.1: Specify other cargo
- 15.25.8: Tank 1 "other" Tonnes
- 15.25.9: Tank 1 "other" degrees C
- 15.25.10: Tank 1 "other" Tonnes
- 15.25.11: Tank 1 "other" degrees C
- 15.26.1: Tank 2 Capacity m3 (100%)
- 15.26.2: Tank 2 Butane Tonnes
- 15.26.3: Tank 2 Butane degrees C
- 15.26.4: Tank 2 Propane Tonnes
- 15.26.5: Tank 2 Propane degrees C
- 15.26.6: Tank 2 Ammonia Tonnes
- 15.26.7: Tank 2 Ammonia degrees C
- 15.26.7.1: Specify other cargo

15.26.8: Tank 2 "other" Tonnes  
15.26.9: Tank 2 "other" degrees C  
15.26.10: Tank 2 "other" Tonnes  
15.26.11: Tank 2 "other" degrees C  
15.27.1: Tank 3 Capacity m3 (100%)  
15.27.2: Tank 3 Butane Tonnes  
15.27.3: Tank 3 Butane degrees C  
15.27.4: Tank 3 Propane Tonnes  
15.27.5: Tank 3 Propane degrees C  
15.27.6: Tank 3 Ammonia Tonnes  
15.27.7: Tank 3 Ammonia degrees C  
15.27.7.1: Specify other cargo  
15.27.8: Tank 3 "other" Tonnes  
15.27.9: Tank 3 "other" degrees C  
15.27.10: Tank 3 "other" Tonnes  
15.27.11: Tank 3 "other" degrees C  
15.28.1: Tank 4 Capacity m3 (100%)  
15.28.2: Tank 4 Butane Tonnes  
15.28.3: Tank 4 Butane degrees C  
15.28.4: Tank 4 Propane Tonnes  
15.28.5: Tank 4 Propane degrees C  
15.28.6: Tank 4 Ammonia Tonnes  
15.28.7: Tank 4 Ammonia degrees C  
15.28.7.1: Specify other cargo  
15.28.8: Tank 4 "other" Tonnes  
15.28.9: Tank 4 "other" degrees C  
15.28.10: Tank 4 "other" Tonnes  
15.28.11: Tank 4 "other" degrees C  
15.29.1: Tank 5 Capacity m3 (100%)  
15.29.2: Tank 5 Butane Tonnes  
15.29.3: Tank 5 Butane degrees C  
15.29.4: Tank 5 Propane Tonnes  
15.29.5: Tank 5 Propane degrees C  
15.29.6: Tank 5 Ammonia Tonnes  
15.29.7.1: Specify other cargo  
15.29.7: Tank 5 Ammonia degrees C  
15.29.8: Tank 5 "other" Tonnes  
15.29.9: Tank 5 "other" degrees C  
15.29.10: Tank 5 "other" Tonnes  
15.29.11: Tank 5 "other" degrees C  
15.30.1: Tank 6 Capacity m3 (100%)  
15.30.2: Tank 6 Butane Tonnes  
15.30.3: Tank 6 Butane degrees C

- 15.30.4: Tank 6 Propane Tonnes
- 15.30.5: Tank 6 Propane degrees C
- 15.30.6: Tank 6 Ammonia Tonnes
- 15.30.7: Tank 6 Ammonia degrees C
- 15.30.7.1: Specify other cargo
- 15.30.8: Tank 6 "other" Tonnes
- 15.30.9: Tank 6 "other" degrees C
- 15.30.10: Tank 6 "other" Tonnes
- 15.30.11: Tank 6 "other" degrees C
- 15.31.1: Tank 7 Capacity m3 (100%)
- 15.31.2: Tank 7 Butane Tonnes
- 15.31.3: Tank 7 Butane degrees C
- 15.31.4: Tank 7 Propane Tonnes
- 15.31.5: Tank 7 Propane degrees C
- 15.31.6: Tank 7 Ammonia Tonnes
- 15.31.7: Tank 7 Ammonia degrees C
- 15.31.7.1: Specify other cargo
- 15.31.8: Tank 7 "other" Tonnes
- 15.31.9: Tank 7 "other" degrees C
- 15.31.10: Tank 7 "other" Tonnes
- 15.31.11: Tank 7 "other" degrees C
- 15.32.1: Tank 8 Capacity m3 (100%)
- 15.32.2: Tank 8 Butane Tonnes
- 15.32.3: Tank 8 Butane degrees C
- 15.32.4: Tank 8 Propane Tonnes
- 15.32.5: Tank 8 Propane degrees C
- 15.32.6: Tank 8 Ammonia Tonnes
- 15.32.7: Tank 8 Ammonia degrees C
- 15.32.7.1: Specify other cargo
- 15.32.8: Tank 8 "other" Tonnes
- 15.32.9: Tank 8 "other" degrees C
- 15.32.10: Tank 8 "other" Tonnes
- 15.32.11: Tank 8 "other" degrees C
- 15.33: Total Capacity of all tanks (100%)
- 15.34: Total Capacity of all Butane tanks Tonnes
- 15.35: Total Capacity of all Propane tanks Tonnes
- 15.36: Total Capacity of all Ammonia tanks Tonnes
- 15.37: Total Capacity of all "other" tanks Tonnes
- 15.38: Total Capacity of all "other" tanks Tonnes
- 6        LOADING RATES**
- 15.39: From Refrigerated Storage
- 15.39.1: Butane - Rate (tonnes/hr) with vapor return
- 15.39.2: Butane - Rate (tonnes/hr) without vapor return

- 15.39.3: Propane - Rate (tonnes/hr) with vapor return
- 15.39.4: Propane - Rate (tonnes/hr) without vapor return
- 15.39.5: Ammonia - Rate (tonnes/hr) with vapor return
- 15.39.6: Ammonia - Rate (tonnes/hr) without vapor return
- 15.39.7: "other" - Rate (tonnes/hr) with vapor return
- 15.39.7.1: Specify other cargo
- 15.39.8: "other" - Rate (tonnes/hr) without vapor return
- 15.39.9: "other" - Rate (tonnes/hr) with vapor return
- 15.39.10: "other" - Rate (tonnes/hr) without vapor return
- 15.40: From Pressure Storage
- 15.40.1: Butane 0-30deg C - Rate (tonnes/hr) with vapor return
- 15.40.2: Butane 0-30deg C - Rate (tonnes/hr) without vapor return
- 15.40.3: Propane 0 deg C - Rate (tonnes/hr) with vapor return
- 15.40.4: Propane 0 deg C - Rate (tonnes/hr) without vapor return
- 15.40.5: Propane 10 deg C - Rate (tonnes/hr) with vapor return
- 15.40.6: Propane 10 deg C - Rate (tonnes/hr) without vapor return
- 15.40.7: Propane 20 deg C - Rate (tonnes/hr) with vapor return
- 15.40.8: Propane 20 deg C - Rate (tonnes/hr) without vapor return
- 15.40.9: Propane 30 deg C - Rate (tonnes/hr) with vapor return
- 15.40.10: Propane 30 deg C - Rate (tonnes/hr) without vapor return
- 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
- 15.42.3: Rate per Pump m3/hr
- 15.42.4: At Delivery Head m/c
- 15.42.5: Maximum density kg/m3
- 15.43: Booster Pump
- 15.43.1: Type of Booster Pumps
- 15.43.2: Number of pumps per tank
- 15.43.3: Rate per Pump m3/hr
- 15.43.4: At Delivery Head m/c
- 15.43.5: Maximum density kg/m3

## 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
- 15.44.1.2: Hours (Back Press 1 kP/cm2) without vapor return
- 15.44.1.3: Hours (Back Press 5 kP/cm2) with vapor return
- 15.44.1.4: Hours (Back Press 5 kP/cm2) without vapor return
- 15.44.1.5: Hours (Back Press 10 kP/cm2) with vapor return
- 15.44.1.6: Hours (Back Press 10 kP/cm2) without vapor return

- 15.44.2: Pressurized
- 15.44.2.1: Hours (Back Press 1 kP/cm2) with vapor return
- 15.44.2.2: Hours (Back Press 1 kP/cm2) without vapor return
- 15.44.2.3: Hours (Back Press 5 kP/cm2) with vapor return
- 15.44.2.4: Hours (Back Press 5 kP/cm2) without vapor return
- 15.44.2.5: Hours (Back Press 10 kP/cm2) with vapor return
- 15.44.2.6: Hours (Back Press 10 kP/cm2) without vapor return

## 9 UNPUMPABLES

- 15.45: Tank 1 (m3)
- 15.46: Tank 2 (m3)
- 15.47: Tank 3 (m3)
- 15.48: Tank 4

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<Text>Propane from

(m3)

- 15.49: Tank 5 (m3)
- 15.50: