OCIMF Vessel Particulars Questionnaire HVPQ4

1 Chapter 1

1 GENERAL INFORMATION

1.1:	Date this HVPQ document completed	Monday, 12 Jan 2009
1.2:	Name of ship	HELLESPONT PROSPERITY
1.3:	LR/IMO Number	9351440
1.4:	Last previous name	Not applicable
1.4.1:	Date of name change	Not applicable
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	A8IR3
1.12:	INMARSAT number	764645468
1.13:	Ship's fax number	764645469
1.14:	Ship's telex number	463791642-PROS
1.15:	Mobile Phone Number	
1.16:	Ship's Email address	fpros@hellesponthammonia.de
1.17:	Type of ship	Oil Tanker
1.18:	Vessel's MMSI No. (Maritime Mobile Selective Call Identity Code)	636091025
1.19:	Type of Hull	Double hull

2 OWNERSHIP AND OPERATION

1.20:	Name of the Registered Owner	MT " Hellespont Prosperity" GmbH & Co. KG
1.20.1:	Full address	Kaiser-Wilhelm-Str. 9, D-20355 Hamburg, Germany
1.20.2:	Office telephone number	+49 40 27 86 21 31
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. Pavlos Danezis
1.20.7:	Contact person after hours telephone number	+30 6944 84 95 59

1.21:	Number of years this ship has been owned by Registered Owner	2 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	+49 40 27 86 21 31
1.22.3:	Office telex number	
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	+49 172 9911 431
1.22.8:	Emergency callout number	+49 40 22625 266
1.22.9:	Emergency callout pager number	
1.22.10:	Contact details for person responsible for oil spill response	Capt. Heinrich Braun
1.23:	Number of years this vessel has been controlled by technical operator	2 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	+49 40 27 86 21 31
1.25.3:	Office telex number	
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 Imrecke
1.25.7:	Contact person after hours telephone number	+49 172 415 7271

3 BUILDER

1.26:	Builder	NEW CENTURY SHIPBUILDING Co. LTD-China
1.27:	Date of building contract	Thursday, 27 May 2004
1.28:	Hull number	0307336
1.29:	Date keel laid	Saturday, 18 Dec 2004
1.30:	Date launched	Saturday, 10 Jun 2006
1.31:	Date delivered	Monday, 18 Dec 2006
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), Oil Carrier, (E), +AMS, +ACCU, VEC, SH, SHCM,FL (30),VEC,IGS,COW,UWILDS,ESP
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	Saturday, 17 Dec 2011
1.41:	Date of last special survey	Tuesday, 22 Jan 2008
1.42:	Was last special survey an enhanced special survey?	No
1.43:	Date next special survey due	Saturday, 17 Dec 2011
1.44:	If ship has Condition Assessment Programme (CAP) rating, what is the latest rating?	0
1.45:	Date of last annual survey	Tuesday, 22 Jan 2008
1.46:	Date of last boiler survey - Port boiler	Tuesday, 22 Jan 2008
1.47:	Date of last boiler survey - Starboard boiler	Saturday, 22 Mar 2008
1.48:	Is the ship subject to Continuous Machinery Survey?	Yes

5 DIMENSIONS

1.49:	Length overall (LOA)	228.6 Meters
1.50:	Length between perpendiculars (LBP)	219.7 Meters
1.51:	Extreme breadth	32.29 Meters
1.52:	Moulded breadth	32.26 Meters
1.53:	Moulded depth	20.8 Meters
1.54:	Keel to masthead	48.765 Meters
1.55:	Distance bow to bridge	188.3 Meters
1.56:	Distance bridge front - mid point manifold	74.8 Meters
1.57:	PARALLEL MID-BODY DIAGRAM	
1.57.1:	Distance bow to mid-point manifold	113.5 Meters
1.57.2:	Distance stern to mid-point manifold	115.1 Meters
1.57.3:	Parallel body (light ship)	109.781 Meters
1.57.4:	Parallel body, forward to mid-point manifold (light ship)	65.986 Meters
1.57.5:	Parallel body, aft to mid-point manifold (light ship)	43.795 Meters
1.57.6:	Parallel body (normal ballast)	129.415 Meters
1.57.7:	Parallel body, forward to mid-point manifold (normal ballast)	70.899 Meters
1.57.8:	Parallel body, aft to mid-point manifold (normal ballast)	58.576 Meters
1.57.9:	Parallel body at loaded summer deadweight (SDWT)	144.693 Meters
1.57.10:	Parallel body, forward to mid-point manifold at loaded SDWT	71.986 Meters
1.57.11:	Parallel body, aft to mid-point manifold at loaded SDWT	72.707 Meters
1.58:	Does ship have a bulbous bow?	Yes

6 TONNAGES

1.59:	Net Registered Tonnage	22444 Tonnes
1.60:	Gross Tonnage	42010 Tonnes

1.61:	Suez Tonnage	
1.61.1:	Suez Canal Gross Tonnage (SCGT)	44162 Tonnes
1.61.2:	Suez Canal Net Tonnage (SCNT)	39772 Tonnes
1.62:	Panama Tonnage	34705 Tonnes

7 LOADLINE INFORMATION

1.63.1:	Summer Freeboard	6.115 Meters
1.63.2:	Summer Draft	14.52 Meters
1.63.3:	Summer Deadweight	73715 Tonnes
1.63.4:	Summer Displacement	89343.7 Tonnes
1.64.1:	Winter Freeboard	6.417 Meters
1.64.2:	Winter Draft	14.216 Meters
1.64.3:	Winter Deadweight	71668 Tonnes
1.64.4:	Winter Displacement	87317.3 Tonnes
1.65.1:	Tropical Freeboard	5.813 Meters
1.65.2:	Tropical Draft	14.82 Meters
1.65.3:	Tropical Deadweight	75748 Tonnes
1.65.4:	Tropical Displacement	91377.25 Tonnes
1.66.1:	Lightship Freeboard	17.994 Meters
1.66.2:	Lightship Draft	2.839 Meters
1.66.3:	Lightship Deadweight	
1.66.4:	Lightship Displacement	15629.1 Tonnes
1.67.1:	Normal Ballast Condition Freeboard	13.137 Meters
1.67.2:	Normal Ballast Condition Draft	7.66 Meters
1.67.3:	Normal Ballast Condition Deadweight	28510 Tonnes
1.67.4:	Normal Ballast Condition Displacement	44139 Tonnes
1.68.1:	Segregated Ballast Condition Freeboard	13.137 Meters
1.68.2:	Segregated Ballast Condition Draft	7.66 Meters
1.68.3:	Segregated Ballast Condition Deadweight	28510 Tonnes
1.68.4:	Segregated Ballast Condition Displacement	44139 Tonnes
1.69:	FWA at Summer Draft (Freeboard)	333 Millimeters
1.70:	TPC Immersion at Summer Draft (Freeboard)	67.08 Tonnes
1.71.1:	Draught Fore at normal ballast conditions (Freeboard)	6.049 Meters
1.71.2:	Draught Aft at normal ballast conditions (Draft)	9.277 Meters
1.72:	Does ship have Multiple SDWT ?	Yes
1.73:	If yes, what is maximum assigned Deadweight?	73,715 Tonnes
1.74:	What is the max. height of mast above waterline (air draft) in normal SBT condition?	41 Meters

8 RECENT OPERATIONAL HISTORY

1.75:	Has the ship traded continuously without requirement for	Yes

	unscheduled repairs since the last dry-dock, except for normal maintenance?	
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	91025
2.2.1:	Safety Equipment Certificate (Issued)	Monday, 18 Dec 2006
2.2.2:	Safety Equipment Certificate (Expires)	Saturday, 17 Dec 2011
2.2.3:	Safety Equipment Certificate (Last Annual)	Sunday, 16 Mar 2008
2.3.1:	Safety Radio Certificate (Issued)	Monday, 18 Dec 2006
2.3.2:	Safety Radio Certificate (Expires)	Saturday, 17 Dec 2011
2.3.3:	Safety Radio Certificate (Last Annual)	Sunday, 16 Mar 2008
2.4.1:	Safety Construction Certificate (Issued)	Monday, 18 Dec 2006
2.4.2:	Safety Construction Certificate (Expires)	Saturday, 17 Dec 2011
2.4.3:	Safety Construction Certificate (Last Annual)	Tuesday, 22 Jan 2008
2.5.1:	Loadline Certificate (Issued)	Monday, 18 Dec 2006
2.5.2:	Loadline Certificate (Expires)	Saturday, 17 Dec 2011
2.5.3:	Loadline Certificate (Last Annual)	Tuesday, 22 Jan 2008
2.6.1:	International Oil Pollution Prevention Certificate (IOPPC) (Issued)	Monday, 18 Dec 2006
2.6.2:	International Oil Pollution Prevention Certificate (IOPPC) (Expires)	Saturday, 17 Dec 2011
2.6.3:	International Oil Pollution Prevention Certificate (IOPPC) (Last Annual)	Tuesday, 22 Jan 2008
2.7:	Type of Oil Tanker as specified by IOPPC Crude/Product (If not an oil tanker, specify)	Crude Oil / Product Carrier
2.8.1:	Safety Management Certificate (Issued) (SMC)	Sunday, 27 May 2007
2.8.2:	Safety Management Certificate (Expires) (SMC)	Saturday, 26 May 2012
2.8.3:	Safety Management Certificate (Last Intermediate) (SMC)	
2.9.1:	Document of Compliance (Issued) (DOC)	Thursday, 11 Dec 2008
2.9.2:	Document of Compliance (Expires) (DOC)	Friday, 11 Dec 2009
2.9.3:	Document of Compliance (Endorsed) (DOC)	Not applicable
2.10.1:	USCG Letter of Compliance (if applicable) (Issued)	Tuesday, 12 Feb 2008
2.10.2:	USCG Letter of Compliance (if applicable) (Expires)	Friday, 12 Feb 2010

2.10.3:	USCG Letter of Compliance (if applicable) (Last Annual)	Tuesday, 12 Feb 2008
2.11.1:	Date of last USCG Tank Vessel Examination Letter (TVEL) (Issued)	Tuesday, 12 Feb 2008
2.11.2:	Date of last USCG Tank Vessel Examination Letter (TVEL) (Expires)	Friday, 12 Feb 2010
2.12:	Minimum Safe Manning Certificate	Monday, 18 Dec 2006
2.13:	Civil Liability Convention Certificate (1969)	
2.14:	Civil Liability Convention Certificate (1992)	Friday, 20 Feb 2009
2.15:	U.S. Certificate of Financial Responsibility	Saturday, 9 Jan 2010
2.16:	Certificate of Fitness (Chemicals)	Not applicable
2.17:	Certificate of Fitness (Gas)	Not applicable
2.18:	Noxious Liquids Certificate	Not applicable
2.19:	Unattended Machinery Space Certificate (Issued)	Monday, 18 Dec 2006
2.20:	International Tonnage Certificate (Issued)	Friday, 24 Nov 2006

2 DOCUMENTS

2.21:	IMO Safety of Life at Sea Convention (SOLAS 74)	Yes
2.22:	IMO International Code of Signals (SOLAS V-Reg 21)	Yes
2.23:	IMO International Convention for the Prevention of Pollution from Ships (MARPOL 73/78)	Yes
2.24:	IMO Ships Routeing	Yes
2.25:	IMO International Regulations For Preventing Collisions at Sea (COLREGS)	Yes
2.26:	IMO Standards of Training, Certification and Watchkeeping (STCW Convention)	Yes
2.27:	ICS Guide to Helicopter/Ship Operations	Yes
2.28:	OCIMF/ICS/IAPH International Safety Guide for Oil Tankers and Terminals (ISGOTT)	Yes
2.29:	OCIMF/ICS Clean Seas Guide for Oil Tankers	Yes
2.30:	OCIMF/ICS Prevention of Oil Spillages Through Cargo Pumproom Sea Valves	Yes
2.31:	OCIMF/ICS Ship to Ship Transfer Guide (Petroleum)	Yes
2.32:	OCIMF Recommendations for Oil Tanker Manifolds and Associated Equipment	Yes
2.33:	OCIMF Mooring Equipment Guidelines	Yes
2.34:	OCIMF Effective Mooring	Yes
2.35:	USCG Regulations for Tankers (USCG 33 CFR/46 CFR)	Yes
2.36:	Oil Transfer Procedures (USCG 33 CFR 155-156)	Yes
2.37:	Operator's ISM Manuals	Yes
2.38:	Is the publication IMO-Inert Gas Systems, or Ship Technical Operator's equivalent manual on board?	Yes
2.39:	Is the publication IMO-Cow Systems, or Ship Technical Operator's equivalent manual on board?	Yes
2.40:	ICS Bridge Procedures Guide	Yes

2.41:	IAMSAR Vol.3	Yes
2.42:	Nautical Institute Bridge Team Management	Yes
2.43:	International Medical Guide for Ships(or equivalent)	Yes
2.44:	ISPS Code	Yes

3 FOR CHEMICAL TANKERS ONLY

2.45:	IMO Code for Construction & Equipment of Ships Carrying Dangerous Chemicals in Bulk (IBC Code)	Not applicable
2.46:	IMO Index of Dangerous Chemicals Carried in Bulk	No
2.47:	ICS Tanker Safety Guide (Chemicals)	No
2.48:	IMO Code for Construction & Equipment of Ships Carrying Dangerous Chemicals in Bulk (BCH Code)	No
2.49:	Chemical Data Guide (USCG 1990 CIM 16616.6A)	Not applicable
2.50:	Medical First Aid Guide for Use in Accidents involving Dangerous goods (MFAG)	Not applicable
2.51:	Procedures and Arrangements (P&A) Manual	No

4 FOR GAS CARRIERS ONLY

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 Bulk (EGC Code)	Not applicable

3 Chapter 3

1 CREW MANAGEMENT

3.1:	Minimum manning required (officers)	8
3.1.1:	Actual manning (officers)	8
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 St., Legaspi Village Makati City.Manila, Philippines

3.1.7.2:	Office telephone number	+632 892 4071
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)	12
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	
3.2.7.2:	Office telephone number	+ 632 892 4071
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 CONTINUITY

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

3 TRAINING

3.7:	List Operator sponsored training courses available to officers (Bridge Management etc.)	- 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)	Lilley and Gillie
4.1.3:	Magnetic compass (Number of Units)	1
4.2.1:	Gyro compass	Yes
4.2.2:	Gyro compass (Type)	YOKOGAWA
4.2.3:	Gyro compass (Number of Units)	2
4.3.1:	Gyro Autopilot	Yes
4.3.2:	Gyro Autopilot (Type)	YOKOGAWA
4.3.3:	Gyro Autopilot (Number of Units)	1
4.4.1.1:	Radar 1	Yes
4.4.1.2:	Radar (Type)	JRC JMA 9932-SA
4.4.1.3:	Radar 1 (Number of Units)	1
4.4.2.1:	Radar 2	Yes
4.4.2.2:	Radar (Type)	JRC JMA 9922-9XA
4.4.2.3:	Radar 2 (Number of Units)	2
4.4.3:	Are radars gyro stabilised?	Yes
4.5:	Is there at least one radar operating in the 9 GHz frequency band (3cm/x band)?	Yes
4.6:	Are the 3 GHz (10cm/S band) and 9Ghz (3cm / X band) radars fitted with an electronic switching unit?	Yes
4.7.1:	Radar plotting equipment	Yes
4.7.2:	Radar plotting equipment (Type)	
4.7.3:	Radar plotting equipment (Number of Units)	3
4.8.1:	Are the Radars fitted with ARPA?	Yes
4.8.2:	Type of ARPA	
4.8.3:	Number of ARPA Units installed	3

4.9.1:	Depth sounder with recorder	Yes
4.9.2:	Depth sounder with recorder (Type)	JRC JFW-582
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)	CONSILIUM
4.10.3:	Speed/distance indicator (Number of Units)	1
4.11.1:	Doppler log	No
4.11.2:	Doppler log (Type)	Not applicable
4.11.3:	Doppler log (Number of Units)	0
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)	Rolls Royce
4.13.3:	Rudder angle indicator (Number of Units)	4
4.14.1:	RPM indicator	Yes
4.14.2:	RPM indicator (Type)	Konsberg
4.14.3:	RPM indicator (Number of Units)	4
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	No
4.16.2:	Bow thruster indicator (Type)	
4.16.3:	Bow thruster indicator (Number of Units)	
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	Yes
4.18.2:	Rate of turn indicator (Type)	
4.18.3:	Rate of turn indicator (Number of Units)	1
4.19.1:	Radio direction finder	No
4.19.2:	Radio direction finder (Type)	
4.19.3:	Radio direction finder (Number of Units)	
4.20.1:	Navtex receiver	Yes
4.20.2:	Navtex receiver (Type)	JRC NCR-333
4.20.3:	Navtex receiver (Number of Units)	1
4.21.1:	Satellite navigation receiver	No
4.21.2:	Satellite navigation receiver (Type)	
4.21.3:	Satellite navigation receiver (Number of Units)	

4.22.1:	Is the ship fitted with GPS?	No
4.22.2:	Type of GPS installed?	
4.22.3:	Number of GPS units installed?	
4.23.1:	Is the ship fitted with Differential GPS?	Yes
4.23.2:	Type of Differential GPS installed?	JRC JLR-7700 MKII
4.23.3:	Number of Differential GPS units installed?	2
4.24.1:	Is there an Electronic Chart Display?	Yes
4.24.2:	Is there an Electronic Chart Display? (Type)	JAN-901 M JRC
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 ?	No
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 KR 100 A
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
4.31.1.3:	Off - course alarm - gyro (Number of Units)	1
4.31.2.1:	Off - course alarm - magnetic	Yes
4.31.2.2:	Off - course alarm - magnetic (Type)	GMW IPP-AGW
4.31.2.3:	Off - course alarm - magnetic (Number of Units)	1
4.32.1:	Engine order printer	Yes
4.32.2:	Engine order printer (Type)	NIPPON KETKI
4.32.3:	Engine order printer (Number of Units)	1
4.33.1:	Anemometer	Yes
4.33.2:	Anemometer (Type)	NIPPON KETKI
4.33.3:	Anemometer (Number of Units)	1
4.34.1:	Weather fax	Yes
4.34.2:	Weather fax (Type)	JRC JAX-9A

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?	No
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?	Yes

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	Sunday, 27 May 2007

2 HELICOPTERS

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

3 FIRE FIGHTING EQUIPMENT & LIFE SAVING EQUIPMENT

5.3:	Is a fixed foam firefighting system installed for the cargo area?	Yes
5.4:	Type of foam on board	Protein
5.5:	Date of foam supply or last analysis certificate	Monday, 29 Sep 2008
5.6:	What fixed fire fighting system is provided for the paint locker?	WATER/FOAM
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 Spingler
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?	No
5.12:	Is vessel equipped with recharging compressor for breathing apparatus?	Yes
5.13:	What type of lifeboat is fitted?	Enclosed GRP Conventional

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?	300 Millimeters
6.1.2:	What is maximum vertical height above deck plating at aft thwartships coaming?	300 Millimeters
6.1.3:	How far forward is this height maintained?	158 Meters
6.2:	Is an athwartship deck coaming fitted adjacent to accommodation and service areas?	Yes
6.3:	What is the height of the coaming?	300 Millimeters
6.4:	Is spill containment fitted under the cargo manifold?	Yes
6.5:	Is spill containment fitted under all bunker manifolds?	Yes
6.6:	Is containment fitted under the bunker tank vents?	Yes
6.7:	Is containment fitted around the deck machinery?	Yes
6.8:	Specify type of scupper plugs	MECHANICAL
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?	Yes
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?	Yes
6.14:	Are dump valves fitted to slop tanks which can be left open with inert gas pressure on the tanks?	Yes
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	16.0 Bar

6.19:	Is garbage incinerator fitted?	Yes

2 OPA 90 REQUIREMENTS

6.20:	Has the vessel Operator submitted a Vessel Spill Response Plan to the US Coast Guard which has been approved by official USCG letter?	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	CMP PURE EPOXY EPICON T-500
7.1.2:	If partially coated, specify which tanks are coated	ALL CARGO TANKS ARE WHOLE COATED
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	CMP MODIFIED EPOXY NOVA 1000
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%)	11291.4 Cu Meters
8.3.17:	Wings (P & S combined) Number 2 Capacity (98%)	14236.87 Cu Meters
8.3.18:	Wings (P & S combined) Number 3 Capacity (98%)	14255.9 Cu Meters
8.3.19:	Wings (P & S combined) Number 4 Capacity (98%)	14229.6 Cu Meters
8.3.20:	Wings (P & S combined) Number 5 Capacity (98%)	14192.2 Cu Meters
8.3.21:	Wings (P & S combined) Number 6 Capacity (98%)	13166.4 Cu Meters
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%)	1420.5 Cu Meters
8.5.1:	Slops 2nd Tank Capacity (98%)	1415.7 Cu Meters
8.6:	Wings (P & S combined) Total Capacity (98%)	81372.3 Cu Meters
8.7:	Slops 3rd tank Capacity (98%)	320.4 Cu Meters
8.7.1:	Slops 4th tank Capacity (98%)	
8.8:	Centre Tank Total Capacity (98%)	2836.2 Cu Meters
8.9:	Wings (P & S combined) Total Capacity (98%)	81692.7 Cu Meters
8.10:	Grand Total Capacity (98%)	84529 Cu Meters

4 BALLAST TANK CAPACITIES

8.11:	Ballast Capacities At 100% Full (M3)	
8.11.1.1:	Tank Number 1 (Identity)	FPT
8.11.1.2:	Tank Number 1 (Capacity)	1895.6 Cu Meters
8.11.2.1:	Tank Number 2 (Identity)	1 PS
8.11.2.2:	Tank Number 2 (Capacity)	3931.2 Cu Meters
8.11.3.1:	Tank Number 3 (Identity)	2 PS
8.11.3.2:	Tank Number 3 (Capacity)	3613.9 Cu Meters
8.11.4.1:	Tank Number 4 (Identity)	3 PS
8.11.4.2:	Tank Number 4 (Capacity)	3646 Cu Meters
8.11.5.1:	Tank Number 5 (Identity)	4 PS
8.11.5.2:	Tank Number 5 (Capacity)	3646 Cu Meters
8.11.6.1:	Tank Number 6 (Identity)	5 PS
8.11.6.2:	Tank Number 6 (Capacity)	3642.6 Cu Meters
8.11.7.1:	Tank Number 7 (Identity)	6 PS
8.11.7.2:	Tank Number 7 (Capacity)	4275.4 Cu Meters
8.11.8.1:	Tank Number 8 (Identity)	APT
8.11.8.2:	Tank Number 8 (Capacity)	653.2 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	25305 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?	Common

7 IF VESSEL IS SBT TANKER

8.14:	If Vessel is SBT Tanker:	
8.14.1:	What is total capacity of SBT?	25310.7 Cu Meters
8.14.2:	What percentage of summer deadweight can vessel maintain with SBT only?	35 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?	Yes
8.14.6:	Do cargo lines pass through any dedicated or segregated ballast tanks?	No
8.14.7:	If Yes, what type of expansion is fitted?	Not applicable
8.14.8:	Do ballast lines pass through any cargo tanks?	No
8.14.9:	If Yes, what type of expansion is fitted?	Not applicable
8.14.10:	Can vessel pump water ashore for line clearing?	Yes
8.14.11:	If Yes, what is maximum attainable discharge rate?	250 Cu Meter/Hour
8.14.12:	If Yes, what is maximum acceptable back pressure?	10 Bar
8.14.13:	Which cargo tanks are designated for heavy weather ballast as per IMO?	COT 4P and 4S
8.14.13.1:	Tank Location	Frame 122-154

8 CARGO HANDLING

8.15:	How many grades/products can vessel load/discharge with	3

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

9 CARGO AND BALLAST PUMPING SYSTEMS

8.18.1:	Main Pump Number 1 (Identity)	MAIN PUMP
8.18.2:	Main Pump Number 1 (Number)	1
8.18.3:	Main Pump Number 1 (Type)	Centrifugal
8.18.4:	Main Pump Number 1 (Type of Prime Mover)	Steam
8.18.5:	Main Pump Number 1 (Self Priming or Draining)	Self Priming
8.18.6:	Main Pump Number 1 (Capacity)	2300 Cu Meter/Hour
8.18.7:	Main Pump Number 1 (Normal Back Pressure)	10 Bar
8.18.8:	Main Pump Number 1 (At what Head?)	130 Meters
8.18.9:	Main Pump Number 1 (Max RPM)	1550 RPM
8.19.1:	Main Pump Number 2 (Identity)	MAIN PUMP
8.19.2:	Main Pump Number 2 (Number)	1
8.19.3:	Main Pump Number 2 (Type)	Centrifugal
8.19.4:	Main Pump Number 2 (Type of Prime Mover)	Steam
8.19.5:	Main Pump Number 2 (Self Priming or Draining)	Self Priming
8.19.6:	Main Pump Number 2 (Capacity)	2300 Cu Meter/Hour
8.19.7:	Main Pump Number 2 (Normal Back Pressure)	10 Bar
8.19.8:	Main Pump Number 2 (At what Head?)	130 Meters
8.19.9:	Main Pump Number 2 (Max RPM)	1550 RPM
8.20.1:	Main Pump Number 3 (Identity)	MAIN PUMP
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)	Steam
8.20.5:	Main Pump Number 3 (Self Priming or Draining)	Self Priming

8.20.6:	Main Pump Number 3 (Capacity)	2300 Cu Meter/Hour
8.20.7:	Main Pump Number 3 (Normal Back Pressure)	10 Bar
8.20.8:	Main Pump Number 3 (At what Head?)	130 Meters
8.20.9:	Main Pump Number 3 (Max RPM)	1550 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)	1
8.27.2:	Stripping (Type)	Reciprocating
8.27.3:	Stripping (Type of Prime Mover)	Steam
8.27.4:	Stripping (Capacity)	250 Cu Meter/Hour
8.27.5:	Stripping (Normal Back Pressure)	10 Bar
8.27.6:	Stripping (At what Head?)	130 Meters
8.28.1:	Eductors (Number)	3
8.28.2:	Eductors (Type)	
8.28.3:	Eductors (Type of Prime Mover)	
8.28.4:	Eductors(Capacity)	250 Cu Meter/Hour
8.28.5:	Eductors(Normal Back Pressure)	2 Bar
8.28.6:	Eductors(At what Head?)	25 Meters
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)	Electric
8.29.4:	Ballast Handling Main Pump (Capacity)	1500 Cu Meter/Hour
8.29.5:	Ballast Handling Main Pump (Normal Back Pressure)	4 Bar
8.29.6:	Ballast Handling Main Pump (At what Head?)	45 Meters
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)	2
8.31.2:	Ballast Handling Eductors (Type)	
8.31.3:	Ballast Handling Eductors (Type of Prime Mover)	
8.31.4:	Ballast Handling Eductors (Capacity)	250 Cu Meter/Hour
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)	P/RM Entrance/P/RM Platform
8.35:	State location of cargo pump emergency stops (iii)	Cargo Manifold Port
8.36:	State location of cargo pump emergency stops (iv)	Cargo Manifold STBD
8.37:	State location of cargo pump emergency stops (v)	Turbine Side
8.38.1:	Are bearings of cargo pumps fitted with high temperature alarms?	Yes
8.38.2:	Are bearings of cargo pumps fitted with high temperature trips?	Yes
8.39.1:	Are bearings of ballast pumps fitted with high temperature alarms?	Yes
8.39.2:	Are bearings of ballast pumps fitted with high temperature trips?	Yes
8.40.1:	Are casings of cargo pumps fitted with high temperature alarms?	Yes
8.40.2:	Are casings of cargo pumps fitted with high temperature trips?	Yes
8.41.1:	Are casings of ballast pumps fitted with high temperature alarms?	Yes
8.41.2:	Are casings of ballast pumps fitted with high temperature trips?	Yes
8.42.1:	Are pumproom shaft glands through bulkheads fitted with high temperature alarms?	Yes
8.42.2:	Are pumproom shaft glands through bulkheads fitted with high temperature trips?	Yes
8.43:	What is the principal type of cargo valve?	Butterfly
8.44:	What type of cargo valve actuator is fitted?	Hand and HYDRAULIC

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?	Yes
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?	Yes
8.52.1:	Is gauging system certified and calibrated?	Yes
8.52.2:	If it is a portable system does the sounding pipe extend to full tank depth?	Yes
8.53:	Are bunker tanks fitted with a full depth gauging system?	Yes
8.54:	Are high level alarms fitted?	Yes
8.54.1:	If Yes, indicate whether to all tanks or partial?	All
8.54.2:	Are high level alarms independent of the gauging system?	Yes
8.55:	Are bunker tanks fitted with high level alarms?	Yes
8.56:	If Yes, are bunker tank high level alarms part of the primary tank gauging system?	Yes
8.57:	Are closed sampling devices on board?	Yes
8.58:	Are cargo tanks fitted with dipping points as per IMO Res 497 4.4.4?	Yes
8.59:	If portable equipment for gauging uses vapour locks, are vapour locks calibrated?	Yes
8.59.1:	If Yes, by whom are vapour locks calibrated?	Class
8.59.2:	If Yes, by whom are vapour locks certified?	DNV
8.60:	If portable equipment used for gauging who is manufacturer?	Tank System A/S
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	Gas Tight Hermetic UTI
8.63:	Can cargo samples be taken at the manifold?	Yes
8.64:	What is the means of taking cargo temperatures?	SAAB Temperature Sensors/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 PV VALVE Mast Riser
8.68:	State maximum venting capacity	8700 Cu Meter/Hour
8.69:	State P/V valve opening pressure	1700 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?	Yes
8.75:	Are mast risers fitted with high velocity vents?	Yes
8.76:	If Yes, state opening pressure	1400 MM/WG
8.77:	State vacuum setting of mast riser	350 MM/WG
8.78:	State throughput capacity of mast riser.	8700 Cu Meter/Hour
8.79:	What is the maximum loading rate for homogenous cargo?	8000 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?	Manual Butterfly
8.82:	If hydraulic valves fitted, what are closing times?	Not applicable
8.83:	What is the number of cargo connections per side?	4
8.84:	What is the size of cargo connections?	400 Millimeters
8.85:	Are pressure gauges fitted outboard of manifold valves?	Yes
8.86:	What is the material of the manifold?	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?	3
8.90:	What is the size of the bunker connection?	200 Millimeters

16 MANIFOLD ARRANGEMENT

8.91:	Manifold Arrangement Diagram	null
8.92:	Distance A bunker manifold to cargo manifold	2000 Millimeters
8.93:	Distance B cargo manifold to cargo manifold	2500 Millimeters
8.94:	Distance C cargo manifold to vapour return manifold	4000 Millimeters
8.95:	Distance D manifolds to ship's rail	4440 Millimeters

8.96:	Distance E spill tank grating to centre of manifold	900 Millimeters
8.97:	Distance F main deck to centre of manifold	2100 Millimeters
8.98:	Distance G maindeck to top of rail	1310 Millimeters
8.99:	Distance H top of rail to centre of manifold	750 Millimeters
8.100:	Distance J manifold to ship side	4600 Millimeters
8.101:	What is the height of the manifold connections above the waterline at loaded (Summer Deadweight) condition?	8.42 Meters
8.102:	What is the height of the manifold connections above the waterline in normal ballast?	15.33 Meters
8.103:	What is the distance between the keel and centre of manifold?	22.934 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	6
8.106.2:	From Diameter	400 Millimeters
8.106.3:	To Diameter	300 Millimeters
8.107.1:	Number of Reducers carried	6
8.107.2:	From Diameter	400 Millimeters
8.107.3:	To Diameter	250 Millimeters
8.108.1:	Number of Reducers carried	6
8.108.2:	From Diameter	400 Millimeters
8.108.3:	To Diameter	200 Millimeters
8.109.1:	Number of Reducers carried	6
8.109.2:	From Diameter	450 Millimeters
8.109.3:	To Diameter	300 Millimeters
8.110.1:	Number of Reducers carried	6
8.110.2:	From Diameter	450 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?	FPT-WBT-PROOM
8.113:	Where are sensors/sampling points located in pumproom?	2 POINTS
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)	EXPLOSIMETERS (RIKEN OX-226 Oxygen Analyser))

8.114.2:	Portable and Personal gas detection equipment carried Item Number 1 (Number of units)	1
8.115.1:	Portable and Personal gas detection equipment carried Item Number 2 (Name)	Tankscope MSA Orion Series Multi Gas Detector (CO, CO2, H2S, O2)
8.115.2:	Portable and Personal gas detection equipment carried Item Number 2 (Number of units)	2
8.116.1:	Portable and Personal gas detection equipment carried Item Number 3 (Name)	Model GX-2001 Multi Gas Detector (o2,LEL, CO, H2S)
8.116.2:	Portable and Personal gas detection equipment carried Item Number 3 (Number of units)	2
8.117.1:	Portable and Personal gas detection equipment carried Item Number 4 (Name)	Accuro Drager (Multi Gas Detector)
8.117.2:	Portable and Personal gas detection equipment carried Item Number 4 (Number of units)	1
8.118.1:	Portable and Personal gas detection equipment carried Item Number 5 (Name)	Cosmotector Multigasstector (LEL, 02)
8.118.2:	Portable and Personal gas detection equipment carried Item Number 5 (Number of units)	1
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	3
8.122:	Are all tanks coiled?	Yes
8.123:	What is the Height of coils above tank bottom?	150 Millimeters
8.124.1:	Heating surface per tank	
8.124.2:	Heating surface per tank volume ratio	0.02m2/m3, 0.08m2/m3
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?	Stainless Steel
8.129:	Inlet heating medium to coils	Steam
8.130.1:	With Sea temperature	
8.130.2:	With air temperature	-10 Degrees C
8.131:	Heating agent	Steam
8.132:	Number of heaters	1
8.133.1:	Able to raise temperature from	44 Degrees C
8.133.2:	Able to raise temperature to	66 Degrees C
8.133.3:	Time taken to raise temperature	96 Hours
8.134:	Total capacity of boilers	20000 KCal

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?	Flue Gas / IGG
9.4:	Are fixed O2 alarms fitted in inert gas generating spaces?	Yes
9.5:	What is the capacity of the IGS?	8700 Cu Meter/Hour
9.6:	How many fans does it have?	2
9.7:	What is the total combined fan capacity?	17400 Cu Meter/Hour
9.8:	Is a top-up IG generator fitted?	Yes
9.8.1:	If Yes, what is its capacity?	8700 Cu Meter/Hour
9.9:	Is an IGS operating manual on board?	Yes
9.10:	What type of deck seal is fitted?	Wet
9.11:	How many segregations does the IGS have?	
9.12:	What method is used to isolate individual tanks?	Isolation Valves/spectacle flange
9.13:	What type of non-return valve is fitted?	Swing Check
9.14:	What means of protection is fitted, other than minimum thermal variation P/V valves, if tanks can be individually isolated from the IG ?	Tank Atmosphere Sensor
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?	at 4 C.O.T aft of Manifolds
9.16.1:	What is the size of the emergency IGS connection?	400 Millimeters
9.17:	Is a Crude Oil Washing (COW) installation fitted? (If No, ignore remainder of this section)	Yes
9.18:	Are COW drive units fixed or portable?	Fixed
9.19:	Are COW drive units programmable?	Yes
9.20:	Is vessel capable of performing COW at the same time as cargo discharge?	Yes
9.21:	Is there an approved COW Manual on board?	Yes
9.22:	What is the working pressure of the COW lines?	10 Bar

10 Chapter 10

1 MOORING

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

2 MOORING WIRES (ON DRUMS)

10.2.1:	Mooring Wires (On Drums) Forecastle (Number)	4
10.2.2:	Mooring Wires (On Drums) Forecastle (Diameter)	30 Millimeters
10.2.3:	Mooring Wires (On Drums) Forecastle (Material)	DYNEEMASK
10.2.4:	Mooring Wires (On Drums) Forecastle (Length)	220 Meters
10.2.5:	Mooring Wires (On Drums) Forecastle (Breaking Strength)	64.4 Tonnes
10.3.1:	Mooring Wires (On Drums) Forward Main Deck (Number)	2
10.3.2:	Mooring Wires (On Drums) Forward Main Deck (Diameter)	30 Millimeters
10.3.3:	Mooring Wires (On Drums) Forward Main Deck (Material)	DYNEEMASK
10.3.4:	Mooring Wires (On Drums) Forward Main Deck (Length)	220 Meters
10.3.5:	Mooring Wires (On Drums) Forward Main Deck (Breaking Strength)	64.4 Tonnes
10.4.1:	Mooring Wires (On Drums) Aft Main Deck (Number)	2
10.4.2:	Mooring Wires (On Drums) Aft Main Deck (Diameter)	30 Millimeters
10.4.3:	Mooring Wires (On Drums) Aft Main Deck (Material)	DYNEEMASK
10.4.4:	Mooring Wires (On Drums) Aft Main Deck (Length)	220 Meters
10.4.5:	Mooring Wires (On Drums) Aft Main Deck (Breaking Strength)	64.4 Tonnes
10.5.1:	Mooring Wires (On Drums) Poop (Number)	4
10.5.2:	Mooring Wires (On Drums) Poop (Diameter)	30 Millimeters
10.5.3:	Mooring Wires (On Drums) Poop (Material)	DYNEEMASK
10.5.4:	Mooring Wires (On Drums) Poop (Length)	220 Meters
10.5.5:	Mooring Wires (On Drums) Poop (Breaking Strength)	64.4 Tonnes

3 MOORING WIRE TAILS

10.6:	Type of shackle	Not applicable
10.7.1:	Mooring Wire Tails Forecastle (Number)	4
10.7.2:	Mooring Wire Tails Forecastle (Diameter)	72 Millimeters
10.7.3:	Mooring Wire Tails Forecastle (Material)	Polyester/Polysteel
10.7.4:	Mooring Wire Tails Forecastle (Length)	11 Meters
10.7.5:	Mooring Wire Tails Forecastle (Breaking Strength)	105 Tonnes
10.8.1:	Mooring Wire Tails Forward Main Deck (Number)	2
10.8.2:	Mooring Wire Tails Forward Main Deck (Diameter)	72 Millimeters
10.8.3:	Mooring Wire Tails Forward Main Deck (Material)	Polyester/Polysteel
10.8.4:	Mooring Wire Tails Forward Main Deck (Length)	11 Meters
10.8.5:	Mooring Wire Tails Forward Main Deck (Breaking Strength)	105 Tonnes
10.9.1:	Mooring Wire Tails Aft Main Deck (Number)	2
10.9.2:	Mooring Wire Tails Aft Main Deck (Diameter)	72 Millimeters
10.9.3:	Mooring Wire Tails Aft Main Deck (Material)	Polyester/Polysteel
10.9.4:	Mooring Wire Tails Aft Main Deck (Length)	11 Meters
10.9.5:	Mooring Wire Tails Aft Main Deck (Breaking Strength)	105 Tonnes
10.10.1:	Mooring Wire Tails Poop (Number)	4

10.10.2:	Mooring Wire Tails Poop (Diameter)	72 Millimeters
10.10.3:	Mooring Wire Tails Poop (Material)	Polyester/Polysteel
10.10.4:	Mooring Wire Tails Poop (Length)	11 Meters
10.10.5:	Mooring Wire Tails Poop (Breaking Strength)	105 Tonnes

4 MOORING ROPES (ON DRUMS)

10.11.1:	Mooring Ropes (On Drums) Forecastle (Number)
10.11.2:	Mooring Ropes (On Drums) Forecastle (Diameter)
10.11.3:	Mooring Ropes (On Drums) Forecastle (Material)
10.11.4:	Mooring Ropes (On Drums) Forecastle (Length)
10.11.5:	Mooring Ropes (On Drums) Forecastle (Breaking Strength)
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)
10.14.2:	Mooring Ropes (On Drums) Poop (Diameter)
10.14.3:	Mooring Ropes (On Drums) Poop (Material)
10.14.4:	Mooring Ropes (On Drums) Poop (Length)
10.14.5:	Mooring Ropes (On Drums) Poop (Breaking Strength)

5 OTHER MOORING LINES

10.15.1:	Other Mooring Lines Forecastle (Number)
10.15.2:	Other Mooring Lines Forecastle (Diameter)
10.15.3:	Other Mooring Lines Forecastle (Material)
10.15.4:	Other Mooring Lines Forecastle (Length)
10.15.5:	Other Mooring Lines Forecastle (Breaking Strength)
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)	
10.18.2:	Other Mooring Lines Poop (Diameter)	
10.18.3:	Other Mooring Lines Poop (Material)	
10.18.4:	Other Mooring Lines Poop (Length)	
10.18.5:	Other Mooring Lines Poop (Breaking Strength)	

6 SPARE MOORING WIRES

10.19.1:	Spare Mooring Wires (Identity 1)	
10.19.2:	Number (Identity 1)	2
10.19.3:	Diameter (Identity 1)	30 Millimeters
10.19.4:	Material (Identity 1)	DYNEEMA
10.19.5:	Length (Identity 1)	220 Meters
10.19.6:	Breaking Strength (Identity 1)	Not applicable
10.19.1.1:	Spare Mooring Wires (Identity 2)	
10.19.1.2:	Number (Identity 2)	2
10.19.1.3:	Diameter (Identity 2)	30 Millimeters
10.19.1.4:	Material (Identity 2)	DYNEEMA
10.19.1.5:	Length (Identity 2)	220 Meters
10.19.1.6:	Breaking Strength (Identity 2)	64.46 Tonnes

7 SPARE MOORING ROPES

10.20.1:	Spare Mooring Ropes (Identity 1)	
10.20.2:	Number (Identity 1)	2
10.20.3:	Diameter (Identity 1)	60 Millimeters
10.20.4:	Material (Identity 1)	Polyester/Polysteel
10.20.5:	Length (Identity 1)	220 Meters
10.20.6:	Breaking Strength (Identity 1)	74.4 Tonnes
10.20.1.1:	Spare Mooring Ropes (Identity 2)	
10.20.1.2:	Number (Identity 2)	2
10.20.1.3:	Diameter (Identity 2)	64 Millimeters
10.20.1.4:	Material (Identity 2)	Polyester/Polysteel
10.20.1.5:	Length (Identity 2)	220 Meters
10.20.1.6:	Breaking Strength (Identity 2)	81.6 Tonnes

8 SPARE MOORING TAILS

10.21.1:	Spare Mooring Tails (Identity 1)	
10.21.2:	Number (Identity 1)	2

10.21.3:	Diameter (Identity 1)	72 Millimeters
10.21.4:	Material (Identity 1)	Polyester/Polysteel
10.21.5:	Length (Identity 1)	220 Meters
10.21.6:	Breaking Strength (Identity 1)	74.4 Tonnes
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)	48 Tonnes
10.22.7:	Forecastle (Hauling Speed)	15 Meters/Minute
10.23.1:	Forward Main Deck (Number)	1
10.23.2:	Forward Main Deck (Single Drum or Double Drums)	Double Drums
10.23.3:	Forward Main Deck (Split Drums Y/N)	Yes
10.23.4:	Forward Main Deck (Motive Power)	Hydraulic
10.23.5:	Forward Main Deck (Heaving Power)	15 Tonnes
10.23.6:	Forward Main Deck (Brake Capacity)	48 Tonnes
10.23.7:	Forward Main Deck (Hauling Speed)	15 Meters/Minute
10.24.1:	Aft Main Deck (Number)	1
10.24.2:	Aft Main Deck (Single Drum or Double Drums)	Double Drums
10.24.3:	Aft Main Deck (Split Drums Y/N)	Yes
10.24.4:	Aft Main Deck (Motive Power)	Hydraulic
10.24.5:	Aft Main Deck (Heaving Power)	15 Tonnes
10.24.6:	Aft Main Deck (Brake Capacity)	48 Tonnes
10.24.7:	Aft Main Deck (Hauling Speed)	15 Meters/Minute
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)	48 Tonnes
10.25.7:	Poop (Hauling Speed)	15 Meters/Minute

10.26:	What type of winch brakes are fitted?	MECHANICAL
10.27:	Is brake testing equipment on board?	Not applicable
10.28:	When were the brakes last tested?	Monday, 12 Mar 2007

10 MOORING BITS

10.29:	How many sets of mooring bitts are fitted on forecastle?	4
10.30:	How many sets of mooring bitts are fitted on forward main deck?	5
10.31:	How many sets of mooring bitts are fitted on aft main deck?	3
10.32:	How many sets of mooring bitts are fitted on poop deck?	8
10.33:	Distance of mooring chock for breast/spring lines forward of center of manifold	60.35 Meters
10.34:	Distance of mooring chock for breast/spring lines aft of center of manifold	56.95 Meters

11 ANCHORS AND WINDLASS

10.35:	What is the motive power of the windlass?	ElectroHydraulic
10.36:	What is the cable diameter?	81 Millimeters
10.37:	Number of shackles - port cable?	13
10.38:	Number of shackles - starboard cable?	12
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.	Yes
10.41.1:	Type of system (Forward)	YT-2000
10.41.2:	Type of system (Aft)	YT-2000
10.42.1:	Safe Working Load (SWL) of system (Forward)	200 Tonnes
10.42.2:	Safe Working Load (SWL) of system (Aft)	200 Tonnes
10.43.1:	Is pick-up gear provided? (Forward)	Not applicable
10.43.2:	Is pick-up gear provided? (Aft)	Yes
10.44.1:	Towing pennant length (Forward)	
10.44.2:	Towing pennant length (Aft)	90 Meters
10.45.1:	Towing pennant diameter (Forward)	
10.45.2:	Towing pennant diameter (Aft)	80 Millimeters
10.46.1:	Type of strong point (Smit bracket etc) (Forward)	Hinged Bar Type
10.46.2:	Type of strong point (Smit bracket etc) (Aft)	Fairlead/Strong Point
10.47.1:	Chafing chain size (Forward)	76 Millimeters
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)	600
10.49.1:	Is pedestal roller fitted? (Forward)	Not applicable

10.49.2:	Is pedestal roller fitted? (Aft)	Yes
10.50.1:	Is vessel provided with towing wire? (Forward)	Not applicable
10.50.2:	Is vessel provided with towing wire? (Aft)	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?	4
10.53:	What is the height of the bitts in the bow area?	760 Millimeters
10.54:	What is the safe working load of the bitts in the bow area?	64 Tonnes
10.55:	What is the distance between bow fairleads and nearest bitts?	4200 Millimeters
10.56:	Is the bow area clear of any obstructions which would hamper towing connections?	Yes

13 ESCORT TUG

10.57:	SWL of closed chock on stern	64 Tonnes
10.58:	SWL of bollard on poopdeck suitable for escort tug	64 Tonnes
10.59:	Are stern chock and bollard capable of towing astern to 90 degrees?	Yes

14 SINGLE POINT MOORING (SPM) EQUIPMENT

10.60:	Does vessel comply with the latest edition of OCIMF 'Recommendations for Equipment Employed in the Mooring of Vessels at Single Point Moorings (SPM)'?	Yes
10.61:	Is vessel fitted with chain stopper(s)?	Yes
10.61.1:	If Yes, how many?	2
10.61.2:	If Yes, state type	Hinged bar Type
10.61.3:	If Yes, what is the Safe Working Load (SWL)?	200 Tonnes
10.62:	What is the maximum size chain diameter the bow stopper (s) can handle?	76 Millimeters
10.63:	Are closed fairleads of OCIMF recommended size (600mm x 450mm)?	Yes
10.63.1:	If not, give details of size (in format ABCmm x XYZmm)	
10.64:	If two forward bow fairleads are fitted give distance between them	2500 Millimeters
10.65:	What is the distance between the bow fairlead and stopper/bracket?	3500 Millimeters
10.66:	What is the distance from the stopper bracket to roller lead/winch drum?	10.5 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?	No

15 BOW MOORING ARRANGEMENT DIAGRAM

10.70:	Bow Mooring Arrangement Diagram	null

16 MANIFOLD ARRANGEMENT

10.71:	Manifold Arrangement Diagram	null
10.72:	Distance K end of drip tray to center line of deck cleat	800 Millimeters
10.73:	Distance L spill tray to centre line of bollard	460 Millimeters
10.74:	Distance M length of bollard	660 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)?	15 Tonnes
10.76.2:	Date last tested	Not applicable
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?	3

18 OTHER EQUIPMENT

10.80:	Are accommodation ladders arranged to face aft when rigged?	Yes
10.81:	Does vessel have Suez Canal boat davits?	No
10.82:	Does vessel have Suez Canal projector?	Yes

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?	6
11.9:	Is vessel fitted with an INMARSAT satellite communications system?	Yes

11.10:	Does vessel carry at least three survival craft two-way radio telephones?	Yes
11.11:	List any other communications equipment carried:	
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 Pitch
12.4:	How many boilers are fitted?	2
12.4.1:	What is rated output of boilers?	20 Tonnes/Hour
12.5:	What type of fuel is used for main propulsion?	IFO 380
12.6:	Are pressurised fuel pipes double sheathed?	Yes
12.7:	When moored at SBM, is main engine capable of being run astern at low revolutions for extended periods (up to 24 hours continuously)?	Yes
12.8:	Is vessel capable of maintaining speed below 5 Knots?	Yes
12.9:	Is vessel fitted for Unmanned Machinery Space (UMS) operation?	Yes
12.9.1:	Is vessel operated in UMS mode?	Yes

2 THRUSTERS

12.10:	Is vessel fitted with a bow thruster?	Not applicable
12.10.1:	If Yes, give Brake Horse Power	
12.11:	Is vessel fitted with a stern thruster?	Not applicable
12.11.1:	If Yes, give Brake Horse Power	
12.12:	Is vessel fitted with high angle rudder?	Not applicable
12.12.1:	If yes, what type	

3 GENERATORS

12.13:	How many power generators are fitted?	3
12.13.1:	Indicate type of power generator(s)	Diesel
12.14:	What type of fuel is used in the generating plant?	IFO 380
12.15:	Is vessel fitted with emergency generator or batteries?	Emergency Generator

4 MAIN ENGINE AIR START COMPRESSORS

12.16:	Number of main engine start compressors	2
12.17:	Operating pressure	30 Bar

12.18:	Motive power of emergency compressor	35 Cu Meter/Hour

5 BUNKERS

12.19.1:	Fuel Oil (Tank Name)	NO. 1 (P)
12.19.2:	Fuel Oil (Capacity)	503.1 Cu Meters
12.19.3:	Diesel Oil (Tank Name)	DO Storage
12.19.4:	Diesel Oil (Capacity)	207.6 Cu Meters
12.19.5:	Gas Oil (Tank Name)	
12.19.6:	Gas Oil (Capacity)	
12.20.1:	Fuel Oil (Tank Name)	NO. 1 (S)
12.20.2:	Fuel Oil (Capacity)	503.1 Cu Meters
12.20.3:	Diesel Oil (Tank Name)	DO Service
12.20.4:	Diesel Oil (Capacity)	34.4 Cu Meters
12.20.5:	Gas Oil (Tank Name)	
12.20.6:	Gas Oil (Capacity)	
12.21.1:	Fuel Oil (Tank Name)	NO. 2 (P)
12.21.2:	Fuel Oil (Capacity)	500.4 Cu Meters
12.21.3:	Diesel Oil (Tank Name)	
12.21.4:	Diesel Oil (Capacity)	
12.21.5:	Gas Oil (Tank Name)	
12.21.6:	Gas Oil (Capacity)	
12.22.1:	Fuel Oil (Tank Name)	NO. 2 (S)
12.22.2:	Fuel Oil (Capacity)	266 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)	SETTL (S)
12.23.2:	Fuel Oil (Capacity)	34.4 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)	SERV (P)
12.24.2:	Fuel Oil (Capacity)	34.4 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)	SERV (S)

12.25.2:	Fuel Oil (Capacity)	34.4 Cu Meters
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?	Hydraulic-Cylinder
12.27:	How many motorized hydraulic pumps or motors fitted?	2
12.28:	How many telemotors fitted?	2
12.29:	Is an emergency rudder arrest/rudder control fitted?	Yes

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?	25 Tonnes
13.4:	Are manifold bitts at least 35 metres away from the breastlines leading fore and aft?	Yes
13.5:	What is maximum outreach of vessel's cranes or derricks outboard of the ship's side?	9 Meters
13.6:	Are four (4) 200m x 40mm messenger lines available for Ship-To-Ship (STS) mooring operations?	Yes
13.7:	Are there two (2) closed chocks with associated bollards and leads to winches located within 35 metres forward and aft of the centre of the cargo manifold?	Yes

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?	Not applicable

14.3:	Are independent high level alarms fitted?	Not applicable
14.4:	Is a tank overflow control system fitted?	Not applicable
14.4.1:	Are these also fitted to deck tanks?	
14.5:	Are there cargo tank filling restrictions?	
14.5.1:	If yes	
14.5.2:	Filling restrictions are	
14.6:	Is the ship fitted with a fixed remote reading temperature system?	
14.7:	Is the ship fitted with a fixed remote pressure gauging equipment?	
14.8:	Specify other cargo measurement equipment available	
14.9:	Is an Efficient Stripping System fitted?	
14.9.1:	Are independent stripping lines fitted?	
14.9.2:	What is the material of stripping lines?	
14.9.3:	What is the diameter of the stripping lines?	

2 IGS

14.10.1:	(IGS) Composition of gas supplied by	Not applicable
14.10.2:	Nitrogen%	Not applicable
14.10.3:	Carbon Dioxide %	
14.10.4:	Oxygen %	
14.10.5:	Sulphur Dioxide %	
14.10.6:	Carbon Monoxide %	
14.10.7:	Oxides of Nitrogen %	
14.10.8:	Dew Point degrees Celsius	
14.11.1:	(IGS) Composition of gas supplied by	
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 Nitrgen %	
14.11.8:	Dew Point degrees Celsius	
14.12:	Is Cargo Tank Drier fitted?	
14.12.1:	If yes, manufacturer name	
14.12.2:	Capacity	
14.13:	Is bottled Nitrogen available for deck use?	
14.14:	Is steam available on deck?	

3 TANK CONDITIONING

14.15:	Is there a fixed ventilation system?	Not applicable

14.15.1:	What is the Total capacity?	
14.16:	Is the fixed ventilation system fitted with a dehumidifier ?	
14.16.1:	What is the Total capacity?	
14.17:	Is there independent piping?	
14.17.1:	Through cargo lines	
14.17.2:	Portable fans	
14.17.3:	Number:	
14.17.4:	Type:	
14.17.5:	Capacity (one)	
14.18:	Are there gas freeing stand pipes?	
14.18.1:	Portable:	
14.18.2:	Fixed	

4 SAFETY

14.19:	Is there Protective equipment for the protection of crew members available as per IBC 14.1.1 / BCH 3.16.1.?	Not applicable
14.20:	When required by the Chemical Code, is respiratory and eye protection for every person on board available for emergency escape purposes?	
14.21:	When required by the Chemical Code, is there on board at least three sets of personnel protection safety equipment (IBC 14.2.1 / BCH 3.16)?	
14.22:	Is an Oxygen resuscitator available on board?	
14.23:	Are there at least two decontamination showers available on deck?	

5 CARGO AND OTHER MANIFOLDS

14.24:	Total number of manifold connections per side	
14.24.1.1:	Number (Port)	
14.24.1.2:	Size (Port)	
14.24.2.1:	Number (Starboard)	
14.24.2.2:	Size (Starboard)	
14.25:	Designed Max. loading rate	
14.26:	Height of cargo vapour connections above keel	
14.27:	Located on both sides?	
14.28:	Is there an additional connection to cargo system on deck?	
14.28.1:	If yes, position (distance from bow)	

6 CARGO AND OTHER MANIFOLD DIAGRAM

14.29:	Cargo and Other Manifold Diagram	null
14.30:	Dimension A	
14.31:	Dimension B	
14.32:	Dimension C	

14.33: Dimension D

14.34: Dimension E

14.35: Dimension a

14.36: Dimension b

14.37: Dimension x

14.38: Dimension y

14.39: Dimension z

14.40: Dimension i

14.41: Dimension ii

14.42: Dimension iii

7 CARGO TANK PARTICULARS

14.43.1: TANK NUMBER

14.43.2: TANK LOCATION

14.43.3: IMO TYPE

14.43.4: CAPACITY 100%

14.43.5: MAX. LOAD RATE

14.43.6: MAX. TANK PRESSURE

14.43.7: MAX. VENTING CAPACITY

14.43.8: PRESSURE MONITOR

14.43.9: CARGO PUMP CAPACITY

14.43.10: STRIPPED ROB

14.43.11: HEATING MAX. TEMP

14.43.12: COOLING MIN. TEMP

14.43.13: CONSTRUCTION MATERIAL OR COATING

14.43.14: COATING DATE

14.43.15: HIGH LEVEL ALARM TYPE

14.43.16: HI/HI LEVEL ALARM TYPE

14.43.17: LEVEL GAUGE TYPE

14.43.18: VAPOUR LOCKS DIAMETER

14.43.19: CLOSED SAMPLE TYPE

14.44.1: TANK NUMBER

14.44.2: TANK LOCATION

14.44.3: IMO TYPE

14.44.4: CAPACITY 100%

14.44.5: MAX. LOAD RATE

14.44.6: MAX. TANK PRESSURE

14.44.7: MAX. VENTING CAPACITY

14.44.8: PRESSURE MONITOR

14.44.9: CARGO PUMP CAPACITY

14.44.10: STRIPPED ROB

14.44.11: HEATING MAX. TEMP

14.44.12: COOLING MIN. TEMP

14.44.13: CONSTRUCTION MATERIAL OR COATING

14.44.14: COATING DATE

14.44.15: HIGH LEVEL ALARM TYPE

14.44.16: HI/HI LEVEL ALARM TYPE

14.44.17: LEVEL GAUGE TYPE

14.44.18: VAPOUR LOCKS DIAMETER

14.44.19: CLOSED SAMPLE TYPE

14.45.1: TANK NUMBER

14.45.2: TANK LOCATION

14.45.3: IMO TYPE

14.45.4: CAPACITY 100%

14.45.5: MAX. LOAD RATE

14.45.6: MAX. TANK PRESSURE

14.45.7: MAX. VENTING CAPACITY

14.45.8: PRESSURE MONITOR

14.45.9: CARGO PUMP CAPACITY

14.45.10: STRIPPED ROB

14.45.11: HEATING MAX. TEMP

14.45.12: COOLING MIN. TEMP

14.45.13: CONSTRUCTION MATERIAL OR COATING

14.45.14: COATING DATE

14.45.15: HIGH LEVEL ALARM TYPE

14.45.16: HI/HI LEVEL ALARM TYPE

14.45.17: LEVEL GAUGE TYPE

14.45.18: VAPOUR LOCKS DIAMETER

14.45.19: CLOSED SAMPLE TYPE

14.46.1: TANK NUMBER

14.46.2: TANK LOCATION

14.46.3: IMO TYPE

14.46.4: CAPACITY 100%

14.46.5: MAX. LOAD RATE

14.46.6: MAX. TANK PRESSURE

14.46.7: MAX. VENTING CAPACITY

14.46.8: PRESSURE MONITOR

14.46.9: CARGO PUMP CAPACITY

14.46.10: STRIPPED ROB

14.46.11: HEATING MAX. TEMP

14.46.12: COOLING MIN. TEMP

14.46.13: CONSTRUCTION MATERIAL OR COATING

14.46.14: COATING DATE

14.46.15: HIGH LEVEL ALARM TYPE

14.46.16: HI/HI LEVEL ALARM TYPE

14.46.17: LEVEL GAUGE TYPE

14.46.18: VAPOUR LOCKS DIAMETER

14.46.19: CLOSED SAMPLE TYPE

14.47.1: TANK NUMBER

14.47.2: TANK LOCATION

14.47.3: IMO TYPE

14.47.4: CAPACITY 100%

14.47.5: MAX. LOAD RATE

14.47.6: MAX. TANK PRESSURE

14.47.7: MAX. VENTING CAPACITY

14.47.8: PRESSURE MONITOR

14.47.9: CARGO PUMP CAPACITY

14.47.10: STRIPPED ROB

14.47.11: HEATING MAX. TEMP

14.47.12: COOLING MIN. TEMP

14.47.13: CONSTRUCTION MATERIAL OR COATING

14.47.14: COATING DATE

14.47.15: HIGH LEVEL ALARM TYPE

14.47.16: HI/HI LEVEL ALARM TYPE

14.47.17: LEVEL GAUGE TYPE

14.47.18: VAPOUR LOCKS DIAMETER

14.47.19: CLOSED SAMPLE TYPE

14.48.1: TANK NUMBER

14.48.2: TANK LOCATION

14.48.3: IMO TYPE

14.48.4: CAPACITY 100%

14.48.5: MAX. LOAD RATE

14.48.6: MAX. TANK PRESSURE

14.48.7: MAX. VENTING CAPACITY

14.48.8: PRESSURE MONITOR

14.48.9: CARGO PUMP CAPACITY

14.48.10: STRIPPED ROB

14.48.11: HEATING MAX. TEMP

14.48.12: COOLING MIN. TEMP

14.48.13: CONSTRUCTION MATERIAL OR COATING

14.48.14: COATING DATE

14.48.15: HIGH LEVEL ALARM TYPE

14.48.16: HI/HI LEVEL ALARM TYPE

14.48.17: LEVEL GAUGE TYPE

14.48.18: VAPOUR LOCKS DIAMETER

14.48.19: CLOSED SAMPLE TYPE

14.49.1: TANK NUMBER

14.49.2: TANK LOCATION

14.49.3: IMO TYPE

14.49.4: CAPACITY 100%

14.49.5: MAX. LOAD RATE

14.49.6: MAX. TANK PRESSURE

14.49.7: MAX. VENTING CAPACITY

14.49.8: PRESSURE MONITOR

14.49.9: CARGO PUMP CAPACITY

14.49.10: STRIPPED ROB

14.49.11: HEATING MAX. TEMP

14.49.12: COOLING MIN. TEMP

14.49.13: CONSTRUCTION MATERIAL OR COATING

14.49.14: COATING DATE

14.49.15: HIGH LEVEL ALARM TYPE

14.49.16: HI/HI LEVEL ALARM TYPE

14.49.17: LEVEL GAUGE TYPE

14.49.18: VAPOUR LOCKS DIAMETER

14.49.19: CLOSED SAMPLE TYPE

14.50.1: TANK NUMBER

14.50.2: TANK LOCATION

14.50.3: IMO TYPE

14.50.4: CAPACITY 100%

14.50.5: MAX. LOAD RATE

14.50.6: MAX. TANK PRESSURE

14.50.7: MAX. VENTING CAPACITY

14.50.8: PRESSURE MONITOR

14.50.9: CARGO PUMP CAPACITY

14.50.10: STRIPPED ROB

14.50.11: HEATING MAX. TEMP

14.50.12: COOLING MIN. TEMP

14.50.13: CONSTRUCTION MATERIAL OR COATING

14.50.14: COATING DATE

14.50.15: HIGH LEVEL ALARM TYPE

14.50.16: HI/HI LEVEL ALARM TYPE

14.50.17: LEVEL GAUGE TYPE

14.50.18: VAPOUR LOCKS DIAMETER

14.50.19: CLOSED SAMPLE TYPE

14.51.1: TANK NUMBER

14.51.2: TANK LOCATION

14.51.3: IMO TYPE

14.51.4: CAPACITY 100%

14.51.5: MAX. LOAD RATE

14.51.6: MAX. TANK PRESSURE

14.51.7: MAX. VENTING CAPACITY

14.51.8: PRESSURE MONITOR

14.51.9: CARGO PUMP CAPACITY

14.51.10: STRIPPED ROB

14.51.11: HEATING MAX. TEMP

14.51.12: COOLING MIN. TEMP

14.51.13: CONSTRUCTION MATERIAL OR COATING

14.51.14: COATING DATE

14.51.15: HIGH LEVEL ALARM TYPE

14.51.16: HI/HI LEVEL ALARM TYPE

14.51.17: LEVEL GAUGE TYPE

14.51.18: VAPOUR LOCKS DIAMETER

14.51.19: CLOSED SAMPLE TYPE

14.52.1: TANK NUMBER

14.52.2: TANK LOCATION

14.52.3: IMO TYPE

14.52.4: CAPACITY 100%

14.52.5: MAX. LOAD RATE

14.52.6: MAX. TANK PRESSURE

14.52.7: MAX. VENTING CAPACITY

14.52.8: PRESSURE MONITOR

14.52.9: CARGO PUMP CAPACITY

14.52.10: STRIPPED ROB

14.52.11: HEATING MAX. TEMP

14.52.12: COOLING MIN. TEMP

14.52.13: CONSTRUCTION MATERIAL OR COATING

14.52.14: COATING DATE

14.52.15: HIGH LEVEL ALARM TYPE

14.52.16: HI/HI LEVEL ALARM TYPE

14.52.17: LEVEL GAUGE TYPE

14.52.18: VAPOUR LOCKS DIAMETER

14.52.19: CLOSED SAMPLE TYPE

14.53.1: TANK NUMBER

14.53.2: TANK LOCATION

14.53.3: IMO TYPE

14.53.4: CAPACITY 100%

14.53.5: MAX. LOAD RATE

14.53.6: MAX. TANK PRESSURE

14.53.7: MAX. VENTING CAPACITY

14.53.8: PRESSURE MONITOR

14.53.9: CARGO PUMP CAPACITY

14.53.10: STRIPPED ROB

14.53.11: HEATING MAX. TEMP

14.53.12: COOLING MIN. TEMP

14.53.13: CONSTRUCTION MATERIAL OR COATING

14.53.14: COATING DATE

14.53.15: HIGH LEVEL ALARM TYPE

14.53.16: HI/HI LEVEL ALARM TYPE

14.53.17: LEVEL GAUGE TYPE

14.53.18: VAPOUR LOCKS DIAMETER

14.53.19: CLOSED SAMPLE TYPE

14.54.1: TANK NUMBER

14.54.2: TANK LOCATION

14.54.3: IMO TYPE

14.54.4: CAPACITY 100%

14.54.5: MAX. LOAD RATE

14.54.6: MAX. TANK PRESSURE

14.54.7: MAX. VENTING CAPACITY

14.54.8: PRESSURE MONITOR

14.54.9: CARGO PUMP CAPACITY

14.54.10: STRIPPED ROB

14.54.11: HEATING MAX. TEMP

14.54.12: COOLING MIN. TEMP

14.54.13: CONSTRUCTION MATERIAL OR COATING

14.54.14: COATING DATE

14.54.15: HIGH LEVEL ALARM TYPE

14.54.16: HI/HI LEVEL ALARM TYPE

14.54.17: LEVEL GAUGE TYPE

14.54.18: VAPOUR LOCKS DIAMETER

14.54.19: CLOSED SAMPLE TYPE

14.55.1: TANK NUMBER

14.55.2: TANK LOCATION

14.55.3: IMO TYPE

14.55.4: CAPACITY 100%

14.55.5: MAX. LOAD RATE

14.55.6: MAX. TANK PRESSURE

14.55.7: MAX. VENTING CAPACITY

14.55.8: PRESSURE MONITOR

14.55.9: CARGO PUMP CAPACITY

14.55.10: STRIPPED ROB

14.55.11: HEATING MAX. TEMP

14.55.12: COOLING MIN. TEMP

14.55.13: CONSTRUCTION MATERIAL OR COATING

14.55.14: COATING DATE

14.55.15: HIGH LEVEL ALARM TYPE

14.55.16: HI/HI LEVEL ALARM TYPE

14.55.17: LEVEL GAUGE TYPE

14.55.18: VAPOUR LOCKS DIAMETER

14.55.19: CLOSED SAMPLE TYPE

14.56.1: TANK NUMBER

14.56.2: TANK LOCATION

14.56.3: IMO TYPE

14.56.4: CAPACITY 100%

14.56.5: MAX. LOAD RATE

14.56.6: MAX. TANK PRESSURE

14.56.7: MAX. VENTING CAPACITY

14.56.8: PRESSURE MONITOR

14.56.9: CARGO PUMP CAPACITY

14.56.10: STRIPPED ROB

14.56.11: HEATING MAX. TEMP

14.56.12: COOLING MIN. TEMP

14.56.13: CONSTRUCTION MATERIAL OR COATING

14.56.14: COATING DATE

14.56.15: HIGH LEVEL ALARM TYPE

14.56.16: HI/HI LEVEL ALARM TYPE

14.56.17: LEVEL GAUGE TYPE

14.56.18: VAPOUR LOCKS DIAMETER

14.56.19: CLOSED SAMPLE TYPE

14.57.1: TANK NUMBER

14.57.2: TANK LOCATION

14.57.3: IMO TYPE

14.57.4: CAPACITY 100%

14.57.5: MAX. LOAD RATE

14.57.6: MAX. TANK PRESSURE

14.57.7: MAX. VENTING CAPACITY

14.57.8: PRESSURE MONITOR

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

14.58.14: COATING DATE

14.58.15: HIGH LEVEL ALARM TYPE

14.58.16: HI/HI LEVEL ALARM TYPE

14.58.17: LEVEL GAUGE TYPE

14.58.18: VAPOUR LOCKS DIAMETER

14.58.19: CLOSED SAMPLE TYPE

14.59.1: TANK NUMBER

14.59.2: TANK LOCATION

14.59.3: IMO TYPE

14.59.4: CAPACITY 100%

14.59.5: MAX. LOAD RATE

14.59.6: MAX. TANK PRESSURE

14.59.7: MAX. VENTING CAPACITY

14.59.8: PRESSURE MONITOR

14.59.9: CARGO PUMP CAPACITY

14.59.10: STRIPPED ROB

14.59.11: HEATING MAX. TEMP

14.59.12: COOLING MIN. TEMP

14.59.13: CONSTRUCTION MATERIAL OR COATING

14.59.14: COATING DATE

14.59.15: HIGH LEVEL ALARM TYPE

14.59.16: HI/HI LEVEL ALARM TYPE

14.59.17: LEVEL GAUGE TYPE

14.59.18: VAPOUR LOCKS DIAMETER

14.59.19: CLOSED SAMPLE TYPE

14.60.1: TANK NUMBER

14.60.2: TANK LOCATION

14.60.3: IMO TYPE

14.60.4: CAPACITY 100%

14.60.5: MAX. LOAD RATE

14.60.6: MAX. TANK PRESSURE

14.60.7: MAX. VENTING CAPACITY

14.60.8: PRESSURE MONITOR

14.60.9: CARGO PUMP CAPACITY

14.60.10: STRIPPED ROB

14.60.11: HEATING MAX. TEMP

14.60.12: COOLING MIN. TEMP

14.60.13: CONSTRUCTION MATERIAL OR COATING

14.60.14: COATING DATE

14.60.15: HIGH LEVEL ALARM TYPE

14.60.16: HI/HI LEVEL ALARM TYPE

14.60.17: LEVEL GAUGE TYPE

14.60.18: VAPOUR LOCKS DIAMETER

14.60.19: CLOSED SAMPLE TYPE

14.61.1: TANK NUMBER

14.61.2: TANK LOCATION

14.61.3: IMO TYPE

14.61.4: CAPACITY 100%

14.61.5: MAX. LOAD RATE

14.61.6: MAX. TANK PRESSURE

14.61.7: MAX. VENTING CAPACITY

14.61.8: PRESSURE MONITOR

14.61.9: CARGO PUMP CAPACITY

14.61.10: STRIPPED ROB

14.61.11: HEATING MAX. TEMP

14.61.12: COOLING MIN. TEMP

14.61.13: CONSTRUCTION MATERIAL OR COATING

14.61.14: COATING DATE

14.61.15: HIGH LEVEL ALARM TYPE

14.61.16: HI/HI LEVEL ALARM TYPE

14.61.17: LEVEL GAUGE TYPE

14.61.18: VAPOUR LOCKS DIAMETER

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

14.62.8: PRESSURE MONITOR

14.62.9: CARGO PUMP CAPACITY

14.62.10: STRIPPED ROB

14.62.11: HEATING MAX. TEMP

14.62.12: COOLING MIN. TEMP

14.62.13: CONSTRUCTION MATERIAL OR COATING

14.62.14: COATING DATE

14.62.15: HIGH LEVEL ALARM TYPE

14.62.16: HI/HI LEVEL ALARM TYPE

14.62.17: LEVEL GAUGE TYPE

14.62.18: VAPOUR LOCKS DIAMETER

14.62.19: CLOSED SAMPLE TYPE

14.63.1: TANK NUMBER

14.63.2: TANK LOCATION

14.63.3: IMO TYPE

14.63.4: CAPACITY 100%

14.63.5: MAX. LOAD RATE

14.63.6: MAX. TANK PRESSURE

14.63.7: MAX. VENTING CAPACITY

14.63.8: PRESSURE MONITOR

14.63.9: CARGO PUMP CAPACITY

14.63.10: STRIPPED ROB

14.63.11: HEATING MAX. TEMP

14.63.12: COOLING MIN. TEMP

14.63.13: CONSTRUCTION MATERIAL OR COATING

14.63.14: COATING DATE

14.63.15: HIGH LEVEL ALARM TYPE

14.63.16: HI/HI LEVEL ALARM TYPE

14.63.17: LEVEL GAUGE TYPE

14.63.18: VAPOUR LOCKS DIAMETER

14.63.19: CLOSED SAMPLE TYPE

14.64.1: TANK NUMBER

14.64.2: TANK LOCATION

14.64.3: IMO TYPE

14.64.4: CAPACITY 100%

14.64.5: MAX. LOAD RATE

14.64.6: MAX. TANK PRESSURE

14.64.7: MAX. VENTING CAPACITY

14.64.8: PRESSURE MONITOR

14.64.9: CARGO PUMP CAPACITY

14.64.10: STRIPPED ROB

14.64.11: HEATING MAX. TEMP

14.64.12: COOLING MIN. TEMP

14.64.13: CONSTRUCTION MATERIAL OR COATING

14.64.14: COATING DATE

14.64.15: HIGH LEVEL ALARM TYPE

14.64.16: HI/HI LEVEL ALARM TYPE

14.64.17: LEVEL GAUGE TYPE

14.64.18: VAPOUR LOCKS DIAMETER

14.64.19: CLOSED SAMPLE TYPE

8 BALLAST TANK CAPACITIES

14.65.1: TANK NUMBER

14.65.2: TANK LOCATION

14.65.3: COATING DATE

14.65.4: CAPACITY

14.66.1: TANK NUMBER

14.66.2: TANK LOCATION

14.66.3: COATING DATE

14.66.4: CAPACITY

14.67.1: TANK NUMBER

14.67.2: TANK LOCATION

14.67.3: COATING DATE

14.67.4: CAPACITY

14.68.1: TANK NUMBER

14.68.2: TANK LOCATION

14.68.3: COATING DATE

14.68.4: CAPACITY

14.69.1: TANK NUMBER

14.69.2: TANK LOCATION

14.69.3: COATING DATE

14.69.4: CAPACITY

14.70.1: TANK NUMBER

14.70.2: TANK LOCATION

14.70.3: COATING DATE

14.70.4: CAPACITY

14.71.1: TANK NUMBER

14.71.2: TANK LOCATION

14.71.3: COATING DATE

14.71.4: CAPACITY

14.72.1: TANK NUMBER

14.72.2: TANK LOCATION

14.72.3: COATING DATE

14.72.4: CAPACITY

14.73.1: TANK NUMBER

14.73.2: TANK LOCATION

14.73.3: COATING DATE

14.73.4: CAPACITY

14.74.1: TANK NUMBER

14.74.2: TANK LOCATION

14.74.3: COATING DATE

14.74.4: CAPACITY

14.75.1: TANK NUMBER

14.75.2: TANK LOCATION

14.75.3: COATING DATE

14.75.4: CAPACITY

14.76.1: TANK NUMBER

14.76.2: TANK LOCATION

14.76.3: COATING DATE

14.76.4: CAPACITY

14.77.1: TANK NUMBER

14.77.2: TANK LOCATION

14.77.3: COATING DATE

14.77.4: CAPACITY

14.78.1: TANK NUMBER

14.78.2: TANK LOCATION

14.78.3: COATING DATE

14.78.4: CAPACITY

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	

9 TANK CLEANING SYSTEM

14.87:	Is tank cleaning equipment fixed in cargo tanks?	Not applicable
14.88:	Is portable tank cleaning equipment available?	
14.89:	What is the capacity of one tank cleaning machine?	
14.89.1:	At pressure of:	
14.89.2:	Duration of complete cycle	
14.89.3:	Nozzle diameter	
14.90:	Tank washing pump capacity	
14.91:	Is a washing water heater fitted?	
14.91.1:	What is the Max. washing water temperature?	
14.92:	Maximum number of machines operative at pressure above	
14.93:	Where there is different type of equipment used, what is the capacity and type of equipment?	

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?	Yes
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'?	Not applicable

2 CARGO INFORMATION

15.3:	List products which the ship is Certified to carry	Not applicable

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 mlc

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 mlc

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)

The XML page cannot be displayed

Cannot view XML input using XSL style sheet. Please correct the error and then click the Refresh button, or try again later.

An invalid character was found in text content. Error processing resource 'file:///C:/Documents and Settings/All Users/Appl...

```
        <Text>Propane from
```

tyle="width: 710px;" class="Question">
15.48: Tank 4 (m3)

15.49: Tank 5 (m3)

15.50: