

# **Panama Maritime Authority**

Directorate General of Merchant Marine

Marine Accident investigation Department

**M/V "CAPE MED" R-071-2014-DIAM** 

IMO No. 9316828

**DATE: 30th May 2014** 



Department of Maritime Casualty Investigations

Report: M/V "CAPE MED" R-071-2014- DIAM



# REPORT ON THE INVESTIGATION OF THE COLLISION OF

# M.V. "CAPE MED"

**IMO number 9316828** 

At Algeciras, Spain On the 30<sup>th</sup> May 2014

In accordance to Resolution No. 106-135-DGMM of September 9<sup>th</sup>, 2013 from the Merchant Marine General Directorate of the Panama Maritime Authority, on it's second article stipulates; "Similarly investigations are not designed to exert actions criminal, civil or administrative, at which they will be subject only to the purposes stated in the Code for the Investigation of Marine Casualties and Incidents adopted by the International Maritime Organization (IMO)

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### **GLOSSARY OF ABBREVIATIONS**

A/B Able Seaman

ABS American Bureau of Shipping
AIS Automatic Identification System
ARPA Automatic Radar Plotting Aid

BA British Admiralty

BNWS Bridge Navigational Watch System

BTM Bridge Team Management

BV Bureau Veritas CM Crisis Manager

COC Certificate of Competency

COG Course over Ground

COLREG Convention on the International Regulations for Preventing Collisions at Sea

CPA Closest Point of Approach

DNV Det Norske Veritas

DOC Document of compliance
ECR Engine control room
ETA Estimated time of arrival
GPS Global Positioning System

HP Horse Power

HRS Hours

IMO International Maritime OrganizationISM International Safety Management

KG Distance from the keel to the centre of gravity

Kts Knots kW Kilowatt

LBP Length Between Perpendiculars

LR Lloyd's Register

LRIT Long Range identification and Tracking

LT Local Time LOA Length overall

MARPOL International Convention for the Prevention of Pollution from Ships

MB Longitudinal distance of centre of buoyancy from midships

MCA Maritime and Coastguard Agency
MCR Maximum Continuous Rating

MF Longitudinal distance of flotation from midships

MG Longitudinal distance of centre of gravity from midship

MGN Marine Guidance Note

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MSC Maritime Safety Committee (of IMO)

Mt metric tonnes

OOW Officer of the Watch
OS Ordinary Seaman
PA Public Adress

PMA Panama Maritime Administrator SMS Safety Management System

SOG Speed over Ground

SOLAS International Convention for the Safety of Life at Sea

STCW Standards of Training, Certification and Watchkeeping for Seafarers

S-VDR Simplified Voyage Data Recorder UTC Universal Co-ordinated Time

VDR Voyage Data Recorder

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### **INVESTIGATION OBJECTIVES**

Ref. IMO Resolution MSC.255 (84)/MSC.257 (84) CODE FOR THE INVESTIGATION OF MARINE CASUALTIES AND INCIDENTS.

The objective of any marine casualty investigation is to prevent similar casualties in the future. Investigations identify the circumstances of the casualty under investigation and establish the causes and contributing factors, by gathering and analyzing information and drawing on conclusions. Ideally, it is not the purpose of such investigations to determine liability, or apportion blame. However, the investigating authority should not refrain from fully reporting the causes because fault or liability may be inferred from the findings.

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The incident was not caused by mechanical failures on the CAPE MED, nor environmental or organisational factors.

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To China Administration:

To Owners of LE SHENG:

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### To Owners of CAPE MED:

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# 1. SUMMARY

- 1.1 The Panama registered bulk carrier CAPE MED arrived to Gibraltar on the 28th May 201 4 in order to take bunkers and provisions.
- 1.2 Following completion of bunkering operations, the vessel asked for permission to sail.



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- 1.3 Once permission was granted, the vessel heaved up the anchor. While departing from Gibraltar heading South, another ship heading north was approaching in the middle of the Bay.
- 1.4 As both ships got closer to each other it was clear that the vessel heading north was slightly turning hence getting closer and into a collision course.
- 1.5 Master of the CAPE MED reacted and started to try to get the attention of the other vessel but without success.
- 1.6 As soon as the Master felt that the vessel was too close on the middle of the Bay the vessel maneuvered to increase the distance and avoid collision but the other ship altered course to the port side hence heading towards the CAPE MED port side hull.
- 1.7 Both ships collided on the 30th May 2014 at 04,07 hrs.
- 1.8 At the time of the collision the CAPE MED was full of bunkers but in Ballast. The other vessel, the LE SHENG was loaded but with an unknown quantities of consumables.
- 1.9 Neither pollution nor personal injuries were reported.
- 1.10 No co-operation to carry out the casualty investigation was received by neither the LE SHENG or the Chinese Administration.
- 1.11 The report will outline the importance of effective navigational watch, bridge team management and investigation co-operation.

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# CASUALTY DETAILS

<b>Particulars</b>	Details
TIME AND DATE	05:07LT, 30 May 2014
LOCATION /GEOGRAPHICAL POSITION OF INCIDENT	Bay of Gibraltar 36° 04.0N, 005° 22.9W
CREW ON BOARD	27
INJURIES / FATALITIES/ POLLUTION	Hull failure/No fatalities/No pollution

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### 2. PARTICULARS OF CAPE MED

NAME : CAPE MED

FLAG : PANAMA

**PORT OF REGISTRY**: PANAMA

**OFFICIAL NUMBER** : 31844-06-A

CALL SIGN : 3EFC3

**IMO NUMBER** : 9316828

**TYPE** : Bulk Carrier

**L.O.A.** : 290.00 M

**L.B.P** : 280.00 M

**BREADTH** : 47.00 M

**DEPTH** : 24.40 M

**G.R.T** : 93,003

**N.R.T** : 61,795

**DEAD WEIGHT** : 185,827

- 2.1 The vessel is powered by a six (6) cylinder B&W two stroke, single acting main engine type 6S70MC which develops 16,860 kW at 91 rpm manufactured by KAWASAKI HEAVY INDUSTRIES LTD in Japan.
- 2.2 The cargo is carried in a total of nine (9) cargo holds design with a capacity of  $205,722.60 \text{ m}^3$ .

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2.3 The vessel was keel laid on 09th December 2004 and delivered on the 28th April 2016 in Japan, at KAWASAKI SHIPBUILDING CORP. At the time of the accident she was owned by "K" LINE BULK SHIPPING (UK) LTD. represented by the legal firm MORGAN & MORGAN of Panama and managed by FLEET MANAGEMENT EUROPE LTD. of London, UK registered with IMO id 5165802.







Figure 2.1-CAPE MED General view

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2.4 The vessel was classed with Nippon Kaiji Kyokai (NKK) Classification Society with the following notation,

NS\* (Bulk carrier, strengthened for heavy cargoes, Nos. 2,4,6 & 8 holds may be empty) ESP, PSCM
MNS\*, CHG, MPP, LSA, RCF, M0, AFS

NS\* Classification Character for a ship, the plans of which have been approved by the Society in accordance with the Rules, and which has been built under survey for classification of the Society's Surveyors.

MNS\* Classification of Main Propulsion Machinery assigned to a ship having Classification Character NS\*.

ESP Enhanced Survey Programme

PSCM Propeller Shaft Condition Monitoring System

CHG Installations Character for Cargo Handling Appliances

MPP Installations Character for Marine Pollution prevention Installations

LSA Installations Character for Safety Equipment

RCF Installations Character for Radio Installations

M0 Installations Character for Operating Systems for Periodically unattended Machinery Spaces

AFS Installations Character for Anti-Fouling Systems on ships complying with the relevant rule requirements.

2.5 At the time of the collision the vessel held up to date and valid statutory certificates.

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- 2.6 The last Port State Control (USC) inspection prior the accident was carried out in Baltimore, U.S.A. on the 28<sup>th</sup> January 2011, with no deficiencies or observations recorded:
- 2.7 On the same day as for the collision a further Port State Control (Paris MOU) inspection was carried out in Algerians on the 30<sup>th</sup> May 2014, with the following deficiencies recorded:
  - 1. Other(Navigation) COLREG R.8: The vessel did not carry out the manouvers needed to avoid the collision as indicated by Harbour Master (ISM)
  - 2. Other (Navigation) SOLAS CH.V: The vessel did not contact Tarifa Traffic before reaching the line between Europa Point and Punta Carnero according to admiralty radio signals prescribed by nautical chart 1448. The vessel was sailing before during and after the collision within spanish waters as indicated by harbour master (ISM)
  - 3. ISM SOLAS Ch. IX: Deficiencies marked (ISM) are objective evidence of a serious failure or lack of effectiveness of the implementation of the ISM code.
  - 4. Hull Damage Impairing Seaworthiness SOLAS Ch. II-21: Hold 7 holed in port side between frames 113 and 112 below water line 196 m draft. About 4 meters in height. Accidental damage after collision with vessel LE SHENG IMO 9177519
  - Ballast, Fuel and Other tanks SOLAS II-1: Wing Ballast Tank no. 4 port with plates and stiffeners bent in side shell and upper stool for 20 meters in length. Accidental damage after collision with vessel LE SHENG IMO 9177519
  - 6. Fire Drills SOLAS II-1 SOLAS II-2: Performance of fire drill to be improved

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- 7. VDR/S-VDR SOLAS V: After recording the accident properly PC card extracted and VDR cannot record info again. Error Alarm Flushing Continuously.
- 2.8 Records of PSC on equasis were finally inserted as follows,

PSC Organisation	Authority	Port of inspection	Type of inspection	Date of report	Detention	Duration (days)	Number of deficiencies	Details
Paris MoU	Spain	Algeciras	More detailed inspection	30/05/2014	N	0	4	
Paris MoU	Canada	Port hawkesbury	Initial inspection	04/02/2011	N	0		

Category	Deficiency	Number
Emergency Systems	Fire drills	1
Safety of Navigation	Voyage data recorder (VDR)	1
Structural Conditions	Ballast fuel and other tanks	1
Structural Conditions	Hull damage impairing seaworthiness	1

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# Bridge Equipment

2.9 The vessel was fitted with the following navigational equipment on the bridge

Equipment / S/N No.	MANUFACTURE	ТҮРЕ
AIS/1589	J.R.C.	JHS-182
GYRO NO. 1/22N16785	YOKOGAWA	CMZ 700S
GYRO NO. 2/54867	YOKOGAWA	CMZ 900B
MAGNETIC COMPASS	JOHN LILLY & GILLIE	OCEAN
ECHO SOUNDER/1569	FURUNO	FE-700
SPEED LOG/2219-0529	FURUNO	DS-50
ALDIS LAMP/P17359	SHANSIN ELCT. CO.	SPS-10A
RADAR 1	J.R.C.	NWZ 185
RADAR 2	J.R.C.	NWZ 158
PLOTTER	YOKOGAWA	PLOTNAVI
AUTO PILOT/2208	YOKOGAWA	PT500
CORSE RECORDER/1151	YOKOGAWA	PT 500
GPS x 2	J.R.C.	7700MKII
VDR/M841604	J.R.C.	JUE-410F
BNWAS	MARTEK	NAVGUARD

The VDR was fitted on the 27th December 2005 and was last serviced on the 11th March 2014. All the data recorded was saved and transferred to an external USB.

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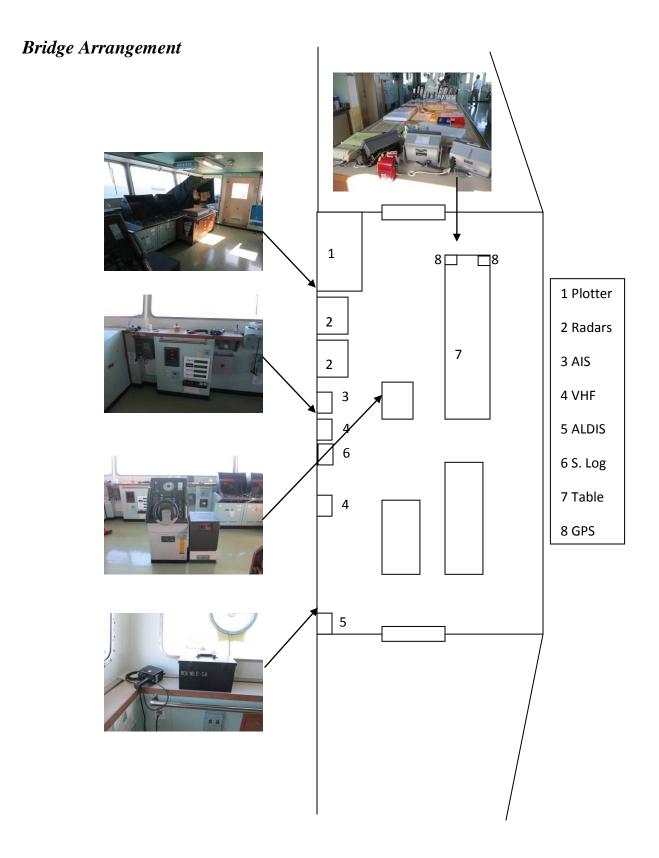


# 2.10 The vessel was fitted with the following communication equipment.

Equipment / S/N No.	MANUFACTURE	ТҮРЕ
2 x VHF	J.R.C.	JHS-32B
4 x VFH (DSC)	J.R.C.	JHS-770S
RTF	J.R.C.	JSS-596/JSB196
3 x 2-WAY VHF	J.R.C.	JHS-7
SATCOM C/EGC	J.R.C.	JUE-75C
MF/HF/DSC	J.R.C.	JSS-196GM
REC WEATHER FAX	J.R.C.	JAX-90B
MINI C	SAILOR	TT-3000LRIT
SATCOM F	J.R.C.	JUE-410F

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# Ship Certificates

CERTIFICATE NAME	ISSUED BY	ISSUED ON	EXPIRES ON
CERTIFICATE OF REGISTRY	PANAMA	12.07.2010	24.07.2015
MINIMUM SAFE MANNING DOCUMENT	PANAMA	25.11.2013	-
RADIO LICENCE	PANAMA	09.11.2011	08.11.2016
BUNKER OIL POLLUTION DAMAGE	PANAMA	20.02.2014	20.04.2015
CLASSIFICATION	NKK	16.06.2011	27.04.2016
CARGO SHIP SAFETY CONSTRUCTION	NKK	16.06.2011	27.04.2016
CARGO SHIP SAFETY EQUIPMENT	NKK	24.06.2013	27.04.2016
CARGO SHIP SAFETY RADIO	NKK	16.06.2011	27.04.2016
IMBC	NKK	28.02.2012	27.02.2017
INTERNATIONAL SEWAGE POLLUTION PREVENTION	NKK	09.12.2008	-
INTERNATIONAL AIR POLLUTION PREVENTION	NKK	16.06.2011	27.04.2016
INTERNATIONAL OIL POLLUTION PREVENTION (IOPP)	NKK	16.06.2011	27.04.2016
LOAD LINE	NKK	16.06.2011	27.04.2016
TONNAGE	NKK	28.04.2006+	-
SAFETY MANAGEMENT CERTIFICATE	NKK	27.09.2011	13.10.2015
DOCUMENT OF COMPLIANCE	NKK	15.09.2011	08.06.2016
INTERNATIONAL SHIP SECURITY	NKK	30.09.2011	14.10.2015

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# Status Class Survey

( Kind of Survey )	( Due Date / Range Date )	( Postponed )	( Last Date )
Special Survey	27 Apr 2016	_	04 May 2011
Intermediate Survey	_	_	11 Mar 2014
Annual Survey	27 Jan 2015 - 27 Jul 2015	_	23 May 2013
No.1 Boiler Survey	27 Apr 2016	_	29 Aug 2013
Docking Survey	27 Apr 2016	_	29 Aug 2013
No.1 Prop. Shaft Survey	27 Apr 2016	_	28 Apr 2006
Last Partial Survey Date	_	-	04 May 2011

# Installation Survey

( Kind of Survey )	( Due Date / Range Date )	( Postponed )	( Last Date )
M0 Special Survey	27 Apr 2016	_	04 May 2011
M0 Annual Survey	27 Jan 2015 - 27 Jul 2015	_	11 Mar 2014

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### 3. PARTICULARS OF LE SHENG

NAME	:	LE SHENG
FLAG	:	P.R. China
PORT OF REGISTRY	:	Guangzhou
OFFICIAL NUMBER	:	Not Known
CALL SIGN	:	BOUU
IMO NUMBER	:	9177519
ТҮРЕ	:	General Dry Cargo
L.O.A.	:	169.00 M
L.B.P	:	158.00 M
BREADTH	:	25.20 M
DEPTH	:	14.10 M
G.R.T	:	15,525
N.R.T	:	8,765
DEAD WEIGHT	:	22,271

- 3.1 The vessel is powered by a six (6) cylinder B&W two stroke, single acting main engine type 6S50MC which develops 7,550 kW at 127 rpm manufactured by DALIAN MARINE DIESEL WORKS in China.
- 3.2 The cargo is carried in a total of four (4) cargo holds design with a capacity of  $31,902 \text{ m}^3$ .

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3.3 The vessel was keel laid on 01<sup>st</sup> August 1998 and delivered on the 31<sup>st</sup> December 1998 in China, at DALIAN SHIPYARD CO. LTD. At the time of the accident she was owned and operated by COSCOL of Guangdong, China registered with IMO id 5104797.





Figure 3.1-LE SHENG General view

3.4 The vessel was classed with China Classification Society (CCS) with the following notation,

HCSA, HCSM (General Dry Cargo Ship, strengthened for heavy cargoes, ice classB, Loading Computer S,I,G,) AUT-0

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- 3.5 The last Port State Control (Tokyo MoU) inspection prior the accident was carried out in Cilacap, Indonesia on the 04<sup>th</sup> January 2014, with no deficiencies or observations recorded:
- 3.6 On the same day as for the collision a further Port State Control (Paris MOU) inspection was carried out in Algerias on the 30<sup>th</sup> May 2014,. The vessel remained twenty five (25) days detained with the following deficiencies recorded:
  - 1. Other(Navigation): Other GROUND FOR DETENTION
  - 2. Structural condition: Hull damage impairing seawothiness
  - 3. Safety of Navigation: Other GROUND FOR DETENTION
  - 4. Living and working conditions: Cleanliness of engine room GROUND FOR DETENTION
  - Propulsion and auxiliary machinery: Auxiliary engine GROUND FOR DETENTION
  - 6. Structural conditions: Stability/strength/loading information and instruments missing GROUND FOR DETENTION
  - Structural conditions: steering gear not properly maintained GROUND FOR DETENTION
  - 8. Safety of navigation: VDR
  - 9. ISM: GROUND FOR DETENTION
  - 10. Life saving appliances : Operation of life saving appliances GROUND FOR DETENTION
  - 11. Labour conditions: Entry dangerous spaces missing
  - 12. Labour conditions: Hospital accommodation
  - 13. Labour conditions: Sleeping room additional spaces

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Survey Description	Date of Last Survey	Place of last survey	Due Date	Range Date
Class Special Survey for Hull	2014-02-16	Shanghai	2019-01-14	2018-10-15~2019-01-14
Class Special Survey for Machinery	2014-02-16	Shanghai	2019-01-14	2018-10-15~2019-01-14
Class Annual Survey			2015-01-14	2014-10-15~2015-04-13
Class Intermediate Survey			2016-01-14	2015-10-15~2017-04-13
Docking Survey	2014-02-05	Shanghai	2017-01-14	
Boiler Survey (Oil-fired Aux.and Exh. Gas Composite Boiler)	2014-02-16	Cilacap, Java	2017-01-14	
Boiler Survey (Steam Pipe)	2012-01-06	Nantong	2017-01-05	
Screwshaft Survey	2014-02-05	Shanghai	2018-12-13	

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#### 4. CREW EXPERIENCE

#### **MASTER**

4.1 Master of Indian Nationality signed onboard the vessel on the 14th May 2014. He had completed 16 days onboard prior the collision. He had been sailing as a Captain since 1990 on different type and sizes of ships. He had been at sea since the year 1979. Additionally to his carreer at sea he had been working as a lead auditor and inspector carrying annual safety inspections on behalf of the flags of Panama and Marshall Islands. He held a valid Panama endorsement valid to 08th August 2014 edosing his national Master's CoC issued in India. He holds a valid GMDSS certificate issued in United Kingdom.

#### CHIEF OFFICER

4.2 Chief Officer of Indian nationality signed onboard the vessel on the 29th May 2014. He had signed on the day before the collision although at that time he was not forming part of the bridge team. He had been sailing as a chief officer foir the last 2 years and with a total experience sailing since 14 years ago. He held a valid Panama endorsement.

### 2<sup>nd</sup> OFFICER

4.3 Second Officer of Filipino nationality signed onboard the vessel on the 04th January 2014. He had completed 4 months and 14 days onboard prior the collision. He had been sailing as a second officer for the last 23 months being this one his third contract. He had been at sea since 2004. He held a valid Panama endorsement valid to 08th September 2014 edorsing his national OOW CoC issued in Philipines. He holds a valid GMDSS certificate issued in Philipines.

# 3<sup>rd</sup> OFFICER

4.3 Third Officer of Filipino nationality signed onboard the vessel on the 18th May 2014. He had completed 2 days onboard prior the collision. He had been sailing as a third officer for the last 18 years. He had been at sea since 20 years ago. He held a valid Panama endorsement valid to 31<sup>st</sup> December 2014 edorsing his national OOW CoC issued in Philipines. He holds a valid GMDSS certificate issued in Philipines.

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### **5. NARRATIVE OF EVENTS**

- 5.1 All times noted in this report are given in the style of the standard 24-hour clock without additional annotations. Ship times used onboard were local times in Gibraltar, i.e. UTC +2.
- 5.2 Narrative of events is taken herewith based on crew statements from the CAPE MED gathered during the investigation.
- 5.3 The CAPE MED arrived to the East side of Gibraltar on the 28th May 2014 at 22.48 hrs and drifted as per instructions received from traffic control.



Figure 5.1-CAPE MED track on the 29th May 2014

- 5.4 On the 29th May 2014 the CAPE MED entered into the Bay of Algeciras and dropped anchor in Gibraltar at 11.48 hrs.
- 5.5 Bunker operations on the CAPE MED started on the 29th May 2014 at 15.18 hrs
- 5.6 Meantime the LE SHENG was loading in the port of Huelva, Spain.

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5.7 Upon completion of loading operations of bulk cargo the LE SHENG sailed at 17.10 hrs from the port of Huelva destined to Algerias for bunkering.



Figure 5.2-LE SHENG track on the 29th May 2014

- 5.8 The CAPE MED completed bunkering operations on the 30<sup>th</sup> May 2014 at 01.50 hrs.
- 5.9 Upon completion of bunker operations and while waiting for timings and documents, the 2<sup>nd</sup> officer was preparing and testing all equipment to sail from Gibraltar.
- 5.10 On the 30<sup>th</sup> May 2014 at 02.30 hrs the bunker barge casted off from the CAPE MED and got away.
- 5.11 At 03.06 hrs the CAPE MED tested the main engine ahead and astern with satisfactory results.

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- 5.12 At 03.11 hrs the CAPE MED called Gibraltar VTS to take permission to heave up the anchor.
- 5.13 Gibraltar VTS called back at 03.12 hrs and told the CAPE MED to hold on for further instructions and immediately replied with permission to sail and informing when the anchor was heaved up and in position.
- 5.14 At 03.40 hrs the anchor was away and at 03.43 hrs the CAPE MED informed Gibraltar VTS that the anchor was away.
- 5.15 Gibraltar VTS acknowledged the confirmation and replied the CAPE MED to go red to red with inbound vessels through the middle of the bay.



Figure 5.3 – Bay of Algeciras

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5.16 At 03.48 hrs the CAPE MED was heading south at a speed of 11.5 knots.

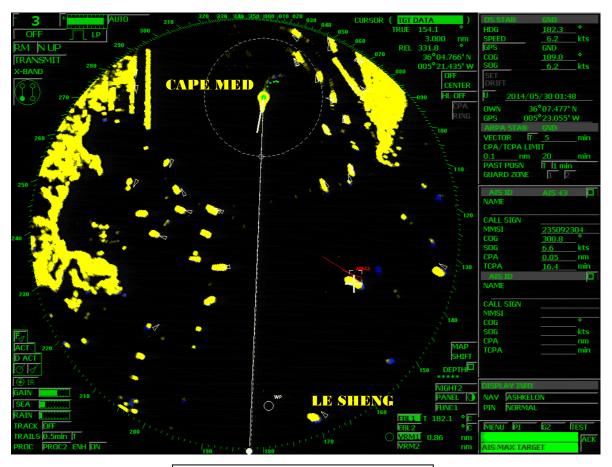


Figure 5.4 – LE SHENG on the radar at 03.48 hrs

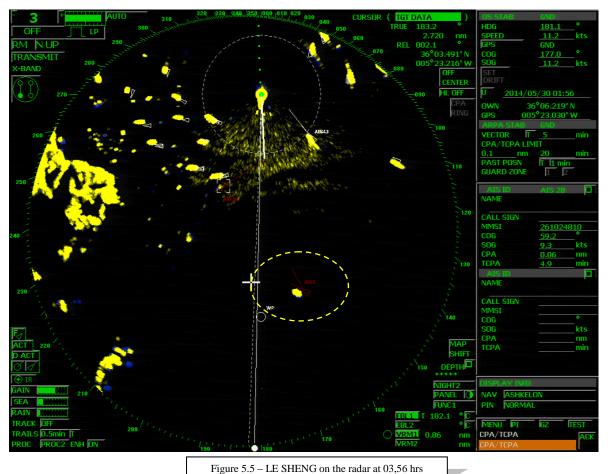
- 5.17 At that time the LE SHENG was forward port of the CAPE MED but well clear heading north east towards Algeciras, Spain.
- 5.18 While heading south the CAPE MED maneuvered to avoid collision with a number of small boats.
- 5.19 Meantime the LE SHENG continued approaching the CAPE MED
- 5.20 While heading South the Master observed one green light and tried to find out to whom such light belonged to.

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5.21 Master asked 2<sup>nd</sup> Officer about the green light on the port quarter and the vessel was targeted on the AIS and the ARPA



- Figure 3.5 LE SHENO on the fadai at 03,50 his
- 5.22 The LE SHENG continued approaching on the forward port quarter on a collision course at a speed of 9.3 knots.
- 5.23 Master tried to call the vessel targeted but no information was found on the AIS.
- 5.24 Master called immediately Gibraltar VTS requesting ship's name and asked VTS to call the other vessel to alter course since she was getting too close.
- 5.25 VTS confirmed the name of the vessel on VHF and Master tried to call.

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5.26 There was no reply from LE SHENG and vessel remained getting closer up to a point that the Master decided to alter course to starboard to get away from the LE SHENG. 5.27 ALDIS lamp was used and horn sounded nevertheless no response from the LE SHENG was received. 5.28 At that time the LE SHENG also altered course to port. 5.29 Master saw that the LE SHENG altered to port and they were on a clear collision 5.30 LE SHENG continued altering course to her port and Master of CAPE MED ordered hard to port. 5.31 In view that the LE SHENG was not changing course and speed the Master of the CAPE MED could foresee that collision was imminent hence ordered the 2nd Officer to ring the general alarm for everybody to Muster. 5.32 At 04,07 hrs. the fore end of the LE SHENG collided with the port side hull of the CAPE MED in way of cargo hold no. 7.

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Figure 5.6 – LE SHENG on the radar at 04,06 hrs

5.33 At the time of the collision the CAPE MED was loaded with the following consumables,

Fuel Oil 1,991.00 mt

Diesel Oil 117.00 mt

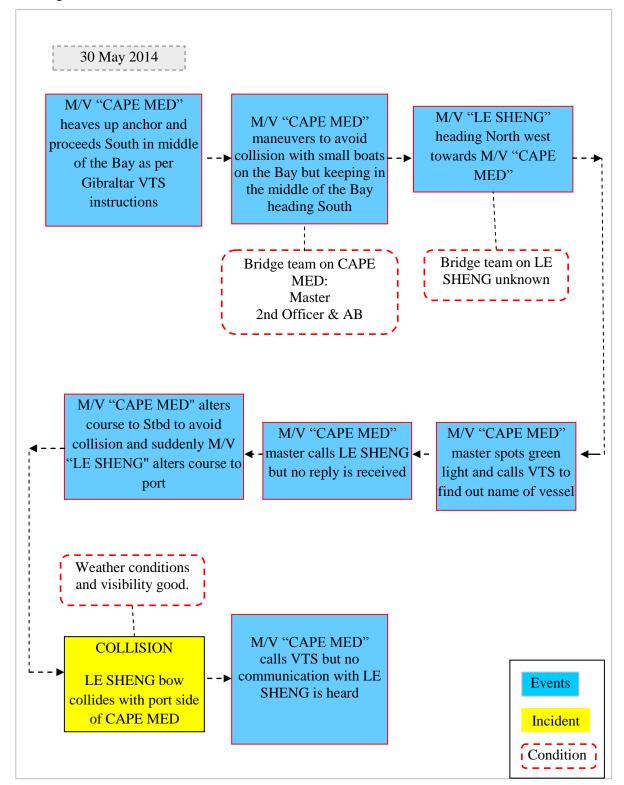
- 5.34 The CAPE MED was in Ballast at the time of the collision.
- 5.35 The quantities of consumables and cargo onboard the LE SHENG is unknown since no co-operation was received at all from the vessel.

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### 6. SEQUENCE OF EVENTS - FLOW CHART



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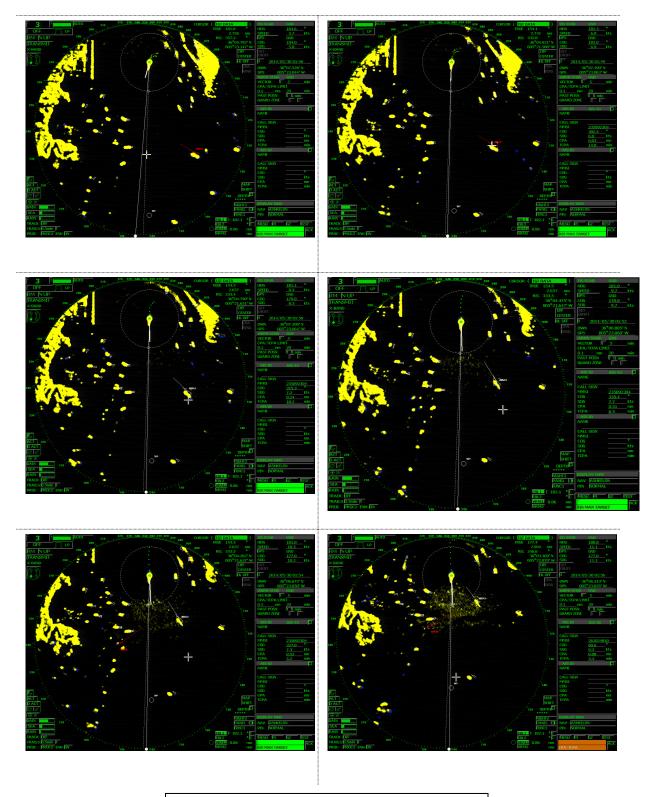


Figure 6.1 – Sequence of events as seen on radar from CAPE MED

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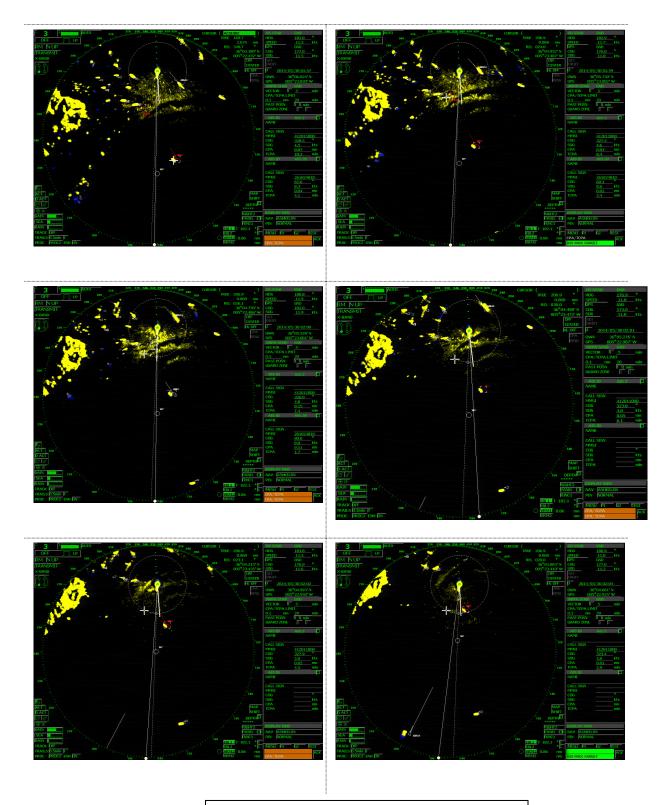


Figure 6.2 – Sequence of events as seen on radar from CAPE MED

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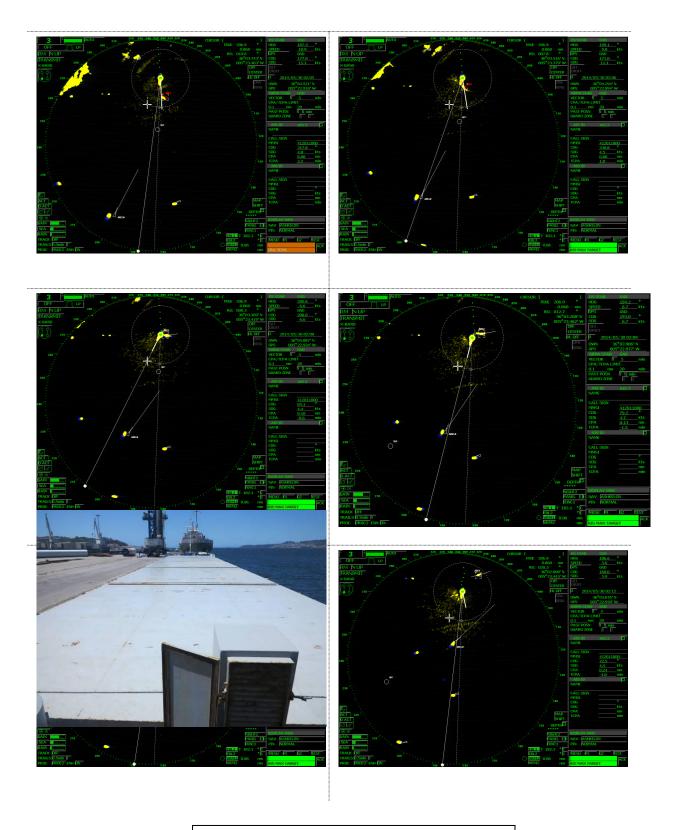


Figure 6.3 – Sequence of events as seen on radar from CAPE MED

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# 7. DAMAGES

7.1 The CAPE MED sustained damages on her hull in way of hold number 7 between frames 107 and 113 affecting the parallel hull structure and the top side tank no. 4 port.





Figure 7.1/7.2

General view of the CAPE

MED damage on the port side

hull

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Figure 7.3/7.4 – CAPE MED damage on the port side



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Figure 7.5/7.6/7.7 - CAPE MED damage on the port side





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7.2 The LE SHENG sustained damages to the complete fore end including the bulbous bow. But no further details were gathered due to the lack of co-operation with the vessel.



Figure 7.8/7.9 – LE SHENG damages on fore end



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Figure 7.10/7.11 – LE SHENG damages on fore end



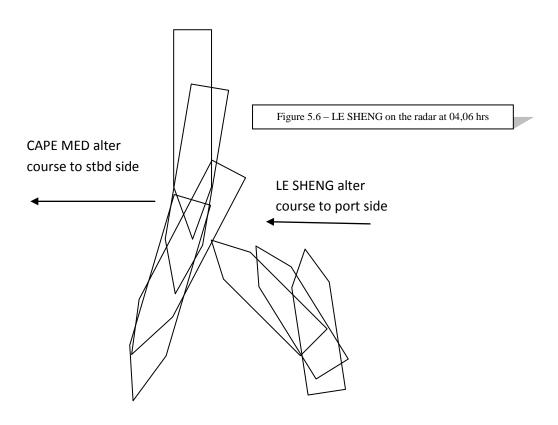
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### 8. ANALISYS

- 8.1 At the time of the collision the bridge team on the CAPE MED was composed of the Master, 2nd Officer and one helmsman.
- 8.2 Gibraltar VTS gave clear instructions to proceed South in the middle of the bay passing red to red with inbound vessels.
- 8.3 The LE SHENG was contacted on VHF but no reply was received.
- 8.4 Signals to attract the attention of the LE SHENG were used as per COLREG Rule 36 but no reaction was observed on the LE SHENG.
- 8.5 The CAPE MED altered course to starboard to increase the distance to the LE SHENG.



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- 8.6 No information gathering was permitted onboard the LE SHENG and no communication with the accident investigation department of the Chinese maritime administration was possible.
- 8.7 While the CAPE MED was altering course to starboard, the LE SHENG altered course to port hence with collision not avoidable.
- 8.8 The LE SHENG for some reason altered course towards the port side of the CAPE MED and there are reasons to believe that the lookout on the bridge was not efficient.
- 8.9 The collision occurred during dark hours at 04.07 hrs which might have been in line with a presumed watch hand over onboard the LE SHENG
- 8.10 Rest hours were correctly set onboard the CAPE MED.

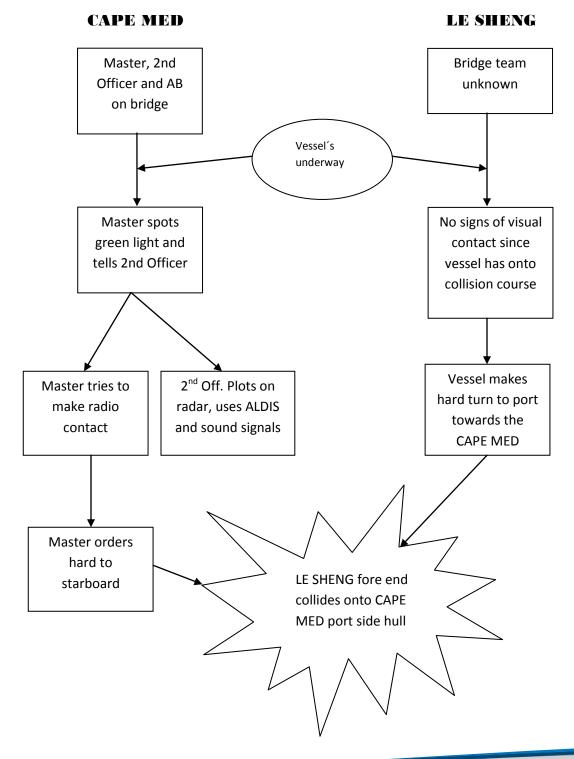
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### 9. HUMAN ERROR ANALYSIS

9.1 No sufficient information was gathered to be able to draw a conclusion and determine the level of human error on this collision. However based on the maneuvering characteristics of the accident it is to assume that human error on the LE SHENG was the primary cause of the collision.



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### 10. CONCLUSIONS

- 10.1 No co-operation from LE SHENG crew and operators was received.
- 10.2 No communication reply from China maritime administration was received hence not able to carry out the investigation effectively.
- 10.3 The collision occurred during dark hours and presumably during watch change over in congested waters.
- 10.4 The reason why the LE SHENG did not reply to radio contact and to light and sound signals is unknown due to lack of co-operation to carry out the investigation effectively
- 10.5 The vessel's name did not appear properly on AIS when the 2nd Officer of the CAPE MED tried to get the name to contact via VHF
- 10.6 As soon as the green light was spotted, the Master tried to get the attention of the LE SHENG by radio, with lights and sound signals with no success.
- As soon as the Master ordered the alteration to starboard, the LE SHENG followed by turning to the port side towards the CAPE MED's hull instead of turning to starboard to increase the distance and hence avoid collision.
  - It was evident that the collision of the fore end of the LE SHENG was due to violation of COLREG regulations.

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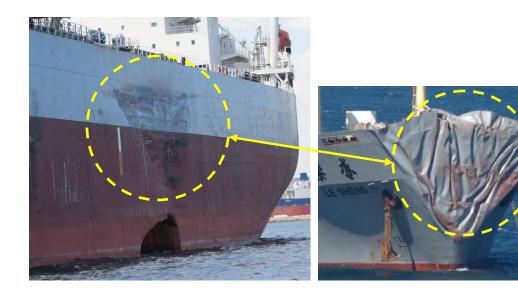


Figure 10.1 – Fore end mark left on the port side hull of CAPE MED

10.8 The incident was not caused by mechanical failures on the CAPE MED, nor environmental or organisational factors.

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# 11. CORRECTIVE ACTIONS

- Operators of the CAPE MED immediately opened an enquiry on the accident and carried out their own investigation.
- 11.2 The incident was published internally and distributed all the in house fleet.
- 11.3 It is unknown what corrective actions took place by the LE SHENG

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## 12. RECOMENDATIONS

### To China Administration:

- 12.1 Improve co-operation level as per IMO resolutions on Marine Casualty Investigations.
- 12.2 Improve communication flow among investigators.

### To Owners of LE SHENG:

- 12.3 Review IMO resolutions on Marine Casualty Investigations and co-operate with administrations on future occasions.
- 12.4 Allow investigators to access all the necessary data necessary to carry out a proper marine casualty investigation as per IMO resolutions.
- 12.5 Carry out internal investigation on the accident
- 12.6 Carry out an exhaustive internal audit focusing on navigation watch and bridge team management.

# To Owners of CAPE MED:

12.7 Carry out an exhaustive internal audit focusing on navigation watch and bridge team management.

Department of Maritime Casualty Investigations Report: M/V "CAPE MED" R-071-2014- DIAM



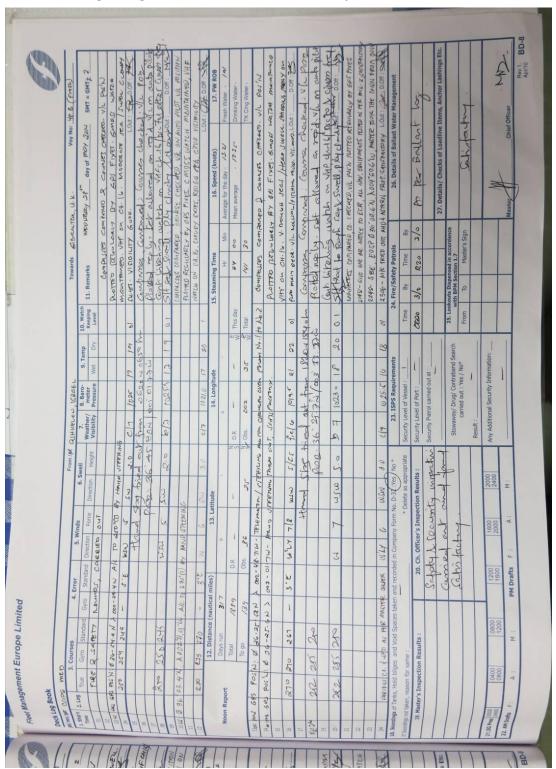
- 13.1 Bridge Log Book, 28th/29th/30th May 2014
- 13.2 Bell Book, 30th May 2014
- 13.3 VHF Log, 30th May 2014
- **13.4** Chart
- 13.5 Police Statement
- 13.6 Manoeuvring Characteristics of CAPE MED
- 13.7 Bridge Check list Departure Gibraltar
- 13.8 Crew List
- 13.9 Rest Hours
- 13.10 Official Log Book Record
- 13.11 Voyage Plan
- 13.12 Stability Calculation departure of Gibraltar

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# 13.1 Bridge Log Book, 28th/29th/30th May 2014



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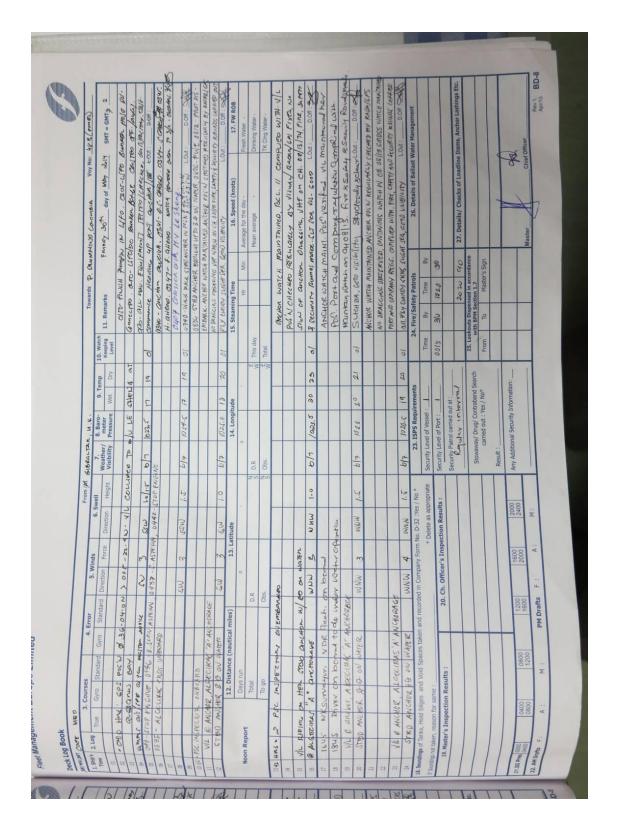


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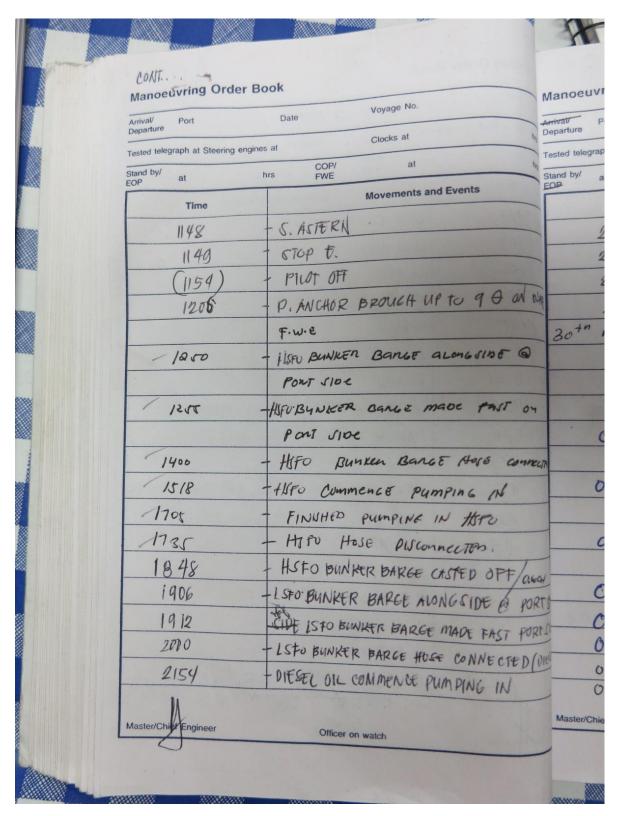


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# 13.2 Bell Bok, 30th May 2014



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hrs Stand by/ a	at 0318 h	rs COP/ FWE at hrs	te
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	may 2014	1449. Walterson 192	2 "
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	0205	- LSFO BUNKER HOSE ONCONNECTED.	navi
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onnectro.	10-	2 TESTES, CATHERUNY.	14
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Master/Chief	Engineer A	F. attead O410 = V/L CONTRES W M.V.  Officer on wards	THE
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# 13.3 VHF Log, 30th May 2014

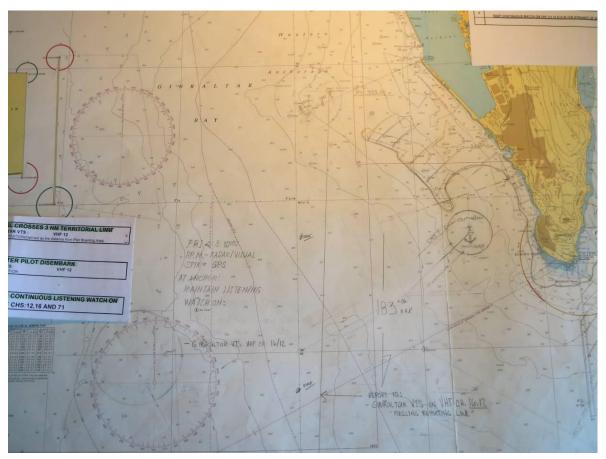
Date	SMT	Vessel's Position	Station	Station To	Channel	Summary of Communication		Initials
			3E+C3	GIBRALTAR	12	NSK FOR PILOT PANCHERING INSTRUCTOR	3/0	XX
2014	0842	005°01.8'W	00100	VTS		VTC REPUED THAT GO S' OF EUROPA PT.		
		0.0 01.0				SULIZOUZA PT	3/2	0
ed only	1020	30005.7N	3EFC3	CIBRALTAR	12	PEPORTED 5' OFF FUROPA PT.	,,	de
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						REPORTED ENTERINE/PASCING	9/0	0
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						m/V LO SHELL.	2/0	1
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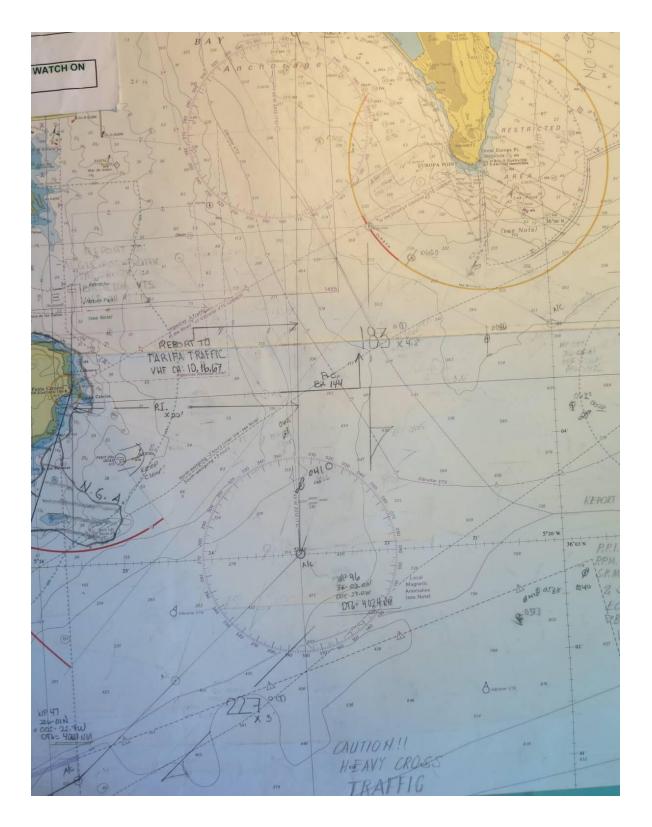


# 13.4 Chart



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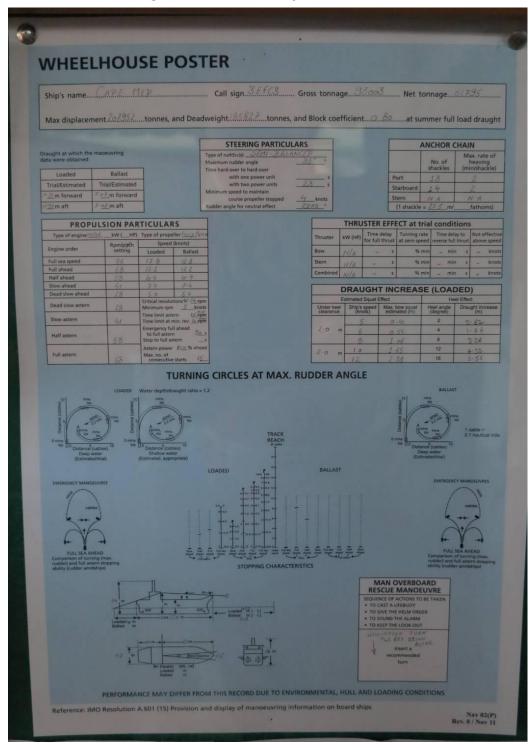


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# 13.5 Manoeuvring Characteristics of CAPE MED

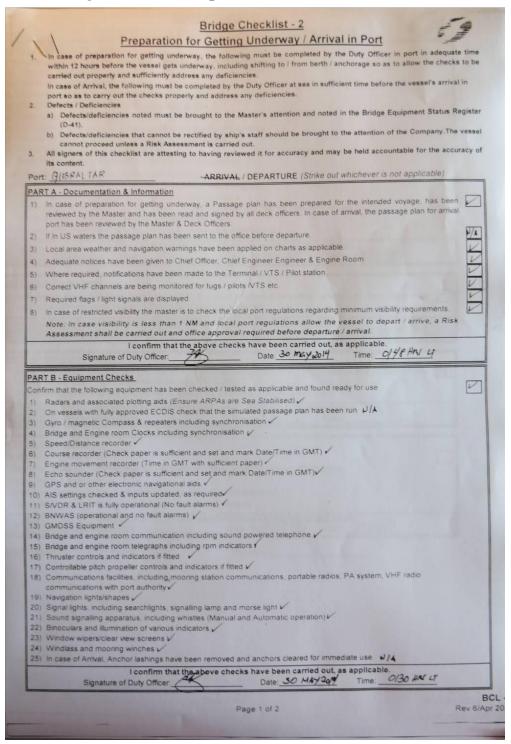


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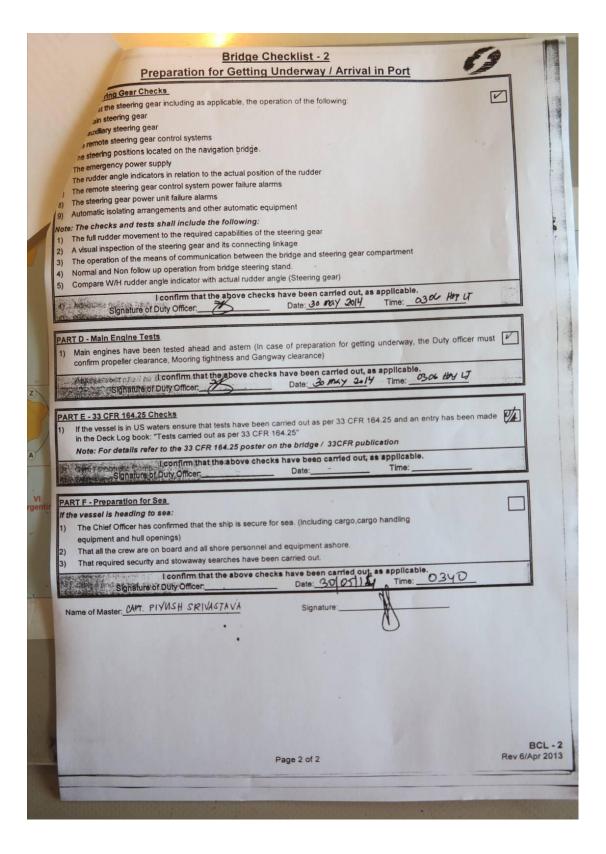


## 13.6 Bridge Check list Departure Gibraltar



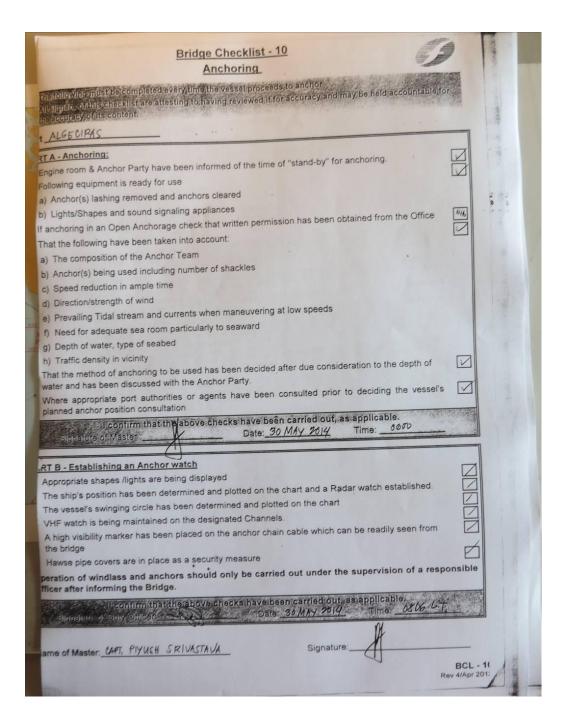
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# 13.7 Crew List

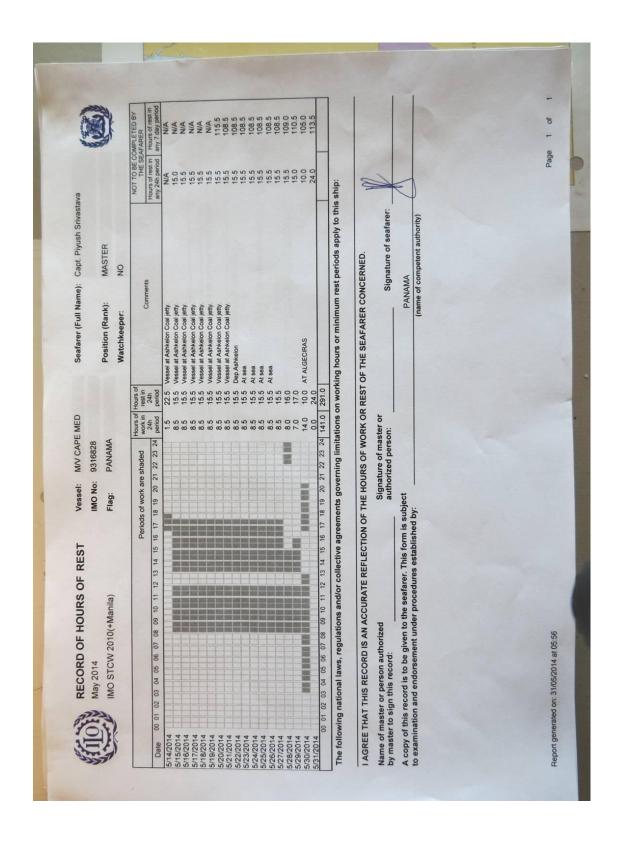
Г				(	CREW LIST					
	Fleet Management	Europe	Limited		I.V."CAPE MED"					
-	lame of ship : CAPE N	1ED	379	, .						
N	ationality of Ship :		Port : Al	GECIRA		30 MAY 2014				
Z	PANAM. Surname , Given name , Middle name	ne Rank/					Seaman's Book Expiry	Nature Document (Passport)	Passport Expiry	Sex
-		MASTER	Indian	01/12/1960	AGRA	BY57566	16/06/2015	Z1891714	03/11/2018	М
1		CH OFF	Indian	02/10/1972		CL46901	01/09/2015	Z2759494	18/03/2024	М
-	FLORES . FERDINAND .					C0073276	02/06/2018	EB9805421	11/12/2018	М
1	ORARIO PAGUNTALAN,	2ND OFF	Filipino	22/09/1980	HIMAMAYLAN,NEG	C0186487	19/01/2019	EB1742822	17/01/2016	М
-	MARLON, TONATO	3RD OFF	Filipino	04/03/1981	OC KOTHAMANGALAM,			J4052504	23/03/2021	М
-	JOJI JOY  ALAGARSAMY	DK.CDT	Indian	27/11/1992	KERALA	MUM196684	26/01/2022 14/02/2015	H6213096	21/07/2019	М
-	VASUDEV	CHENG	Indian	23/01/1975	BODINAYAKANUR CHAKRADHARPUR,	CL73752		L1954021	23/06/2023	M
-	CHANDA , ABHISEK  DAGALEA , ALEX ,	2ND ENG	Indian	18/01/1984	JHARKHAND	MUM126419	06/07/2024			
-	GUEVARA	3RD ENG	Filipino	27/06/1972	ZAMBOANGA CITY	B1034640	21/06/2016	EB3011665	11/07/2016	M
3	CHARLES	ENG. CDT	British	28/04/1993	BELLSHILL	DB00093069	NO EXPIRATION	516473075	19/04/2023	M
1	DAPITON	EL/OFF.	Filipino	20/08/1975		B1095142	08/11/2016	EB4047764	10/11/2016	M
1	JR.,GALLA	BSN	Filipino	31/10/1977	BOTOLAN, ZAMBALES	B1004415	23/03/2016	EB5972281	18/07/2017	М
1	BALAGTAS, DANIEBOY, MESINA	AB1	Filipino	31/05/1981	CABIAO, N. ECIJA	C0184224	12/01/2019	EB9809058	11/12/2018	М
1	GUZMAN,MATEO JR.,MARQUEZ	AB2	Filipino	29/05/1968	PILAR CAPIZ	B0962258	12/01/2016	EC0559456	13/03/2019	М
1.	BALASABAS, JOEL, HERRERO	AB3	Filipino	17/11/1980	NAVOTAS MM	B0896899	18/07/2015	EB6880759	04/12/2017	М
1:	TAYTAY, KRISTIANSEN, TIBIO	os	Filipino	07/02/1991	MANILA	B0925752	22/09/2015	EC1105678	15/05/2019	М
16	CACHUELA,MELVIN,	FTR	Filipino	18/10/1960	CALINOG,ILOILO	C0201159	14/05/2019	EB6312789	10/09/2017	М
17	AWIT, ROEL, CABATINGAN	MTM I	Filipino	21/10/1966	TAGUM DAVAO	B0937691	06/12/2015	EB1455576	24/11/2015	М
18	FERNANDEZ, REX, BEGONA	МТМ 2	Filipino	14/02/1973	ROXAS CITY	C0020159	29/02/2018	EB4966986	15/03/2017	М
15	FERNANDES , DOMINGOS ISABEL	POCT	Indian	08/07/1965	VELIM GOA	MUM128887	25/07/2016	J9745439	27/11/2021	М
20	PELMOKA, JEFFREY, AMANSEC	GS	Filipino	19/10/1978	CABANATUAN NE	B1110712	12/12/2016	EB3885296	16/10/2016	М
	Date and signature by n	naster, au	thrized agen	or officer	N	\[ \n \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		MASTER	17	

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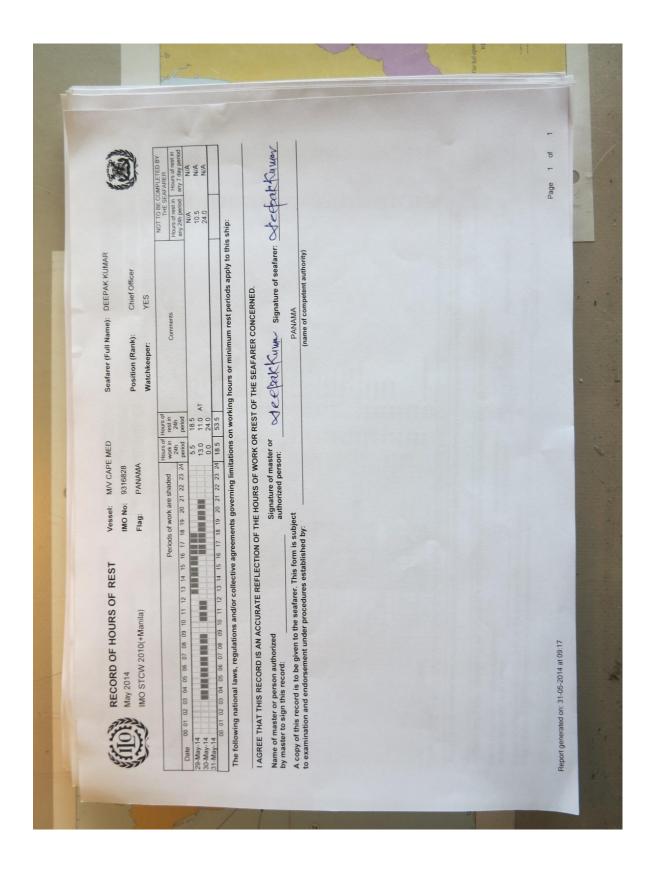


## 13.8 Rest Hours



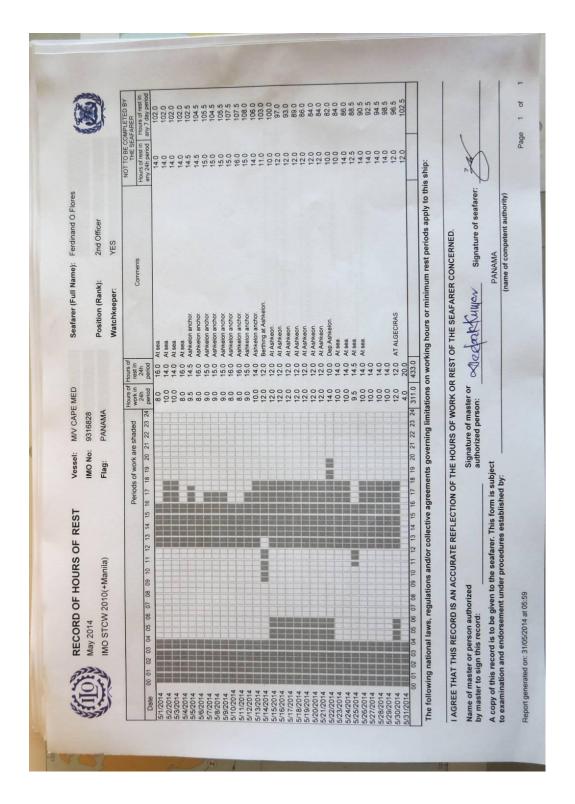
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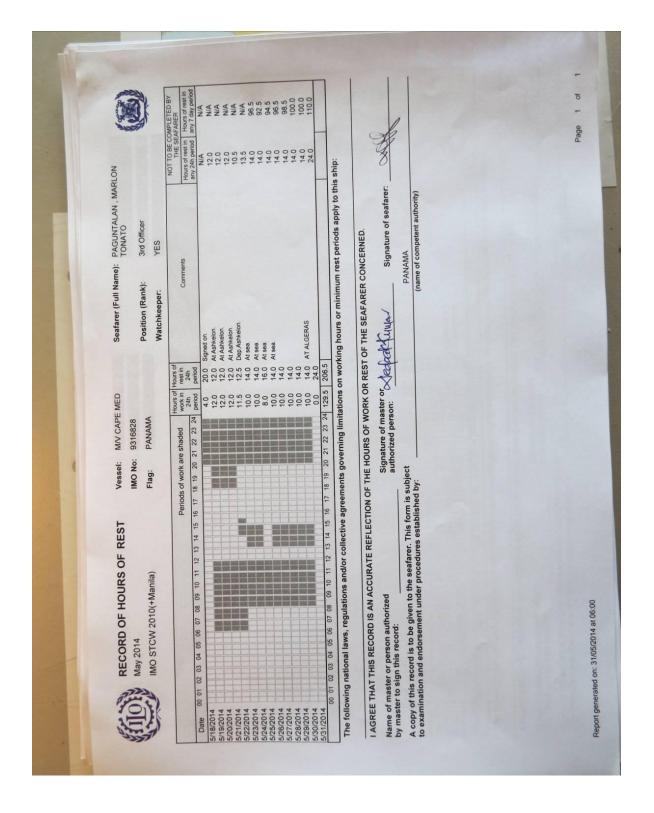
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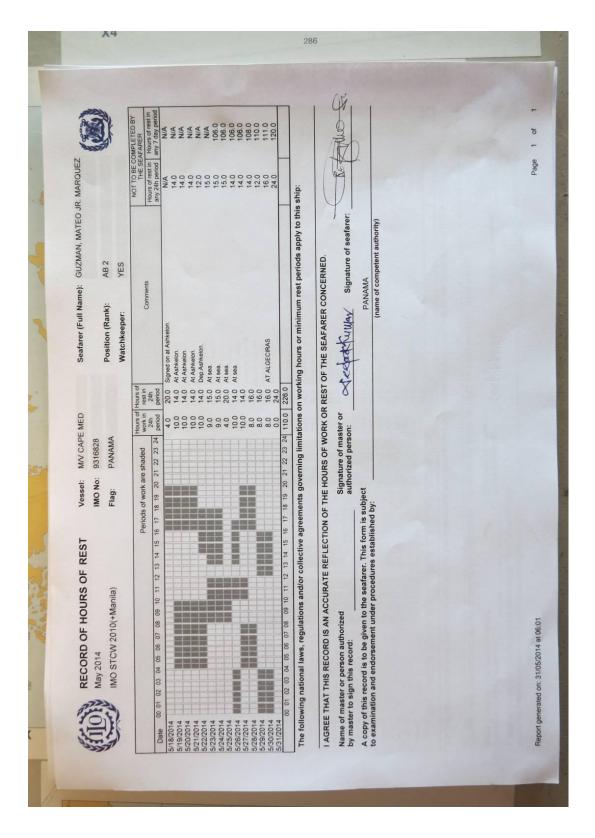
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# 13.9 Official Log Book Record

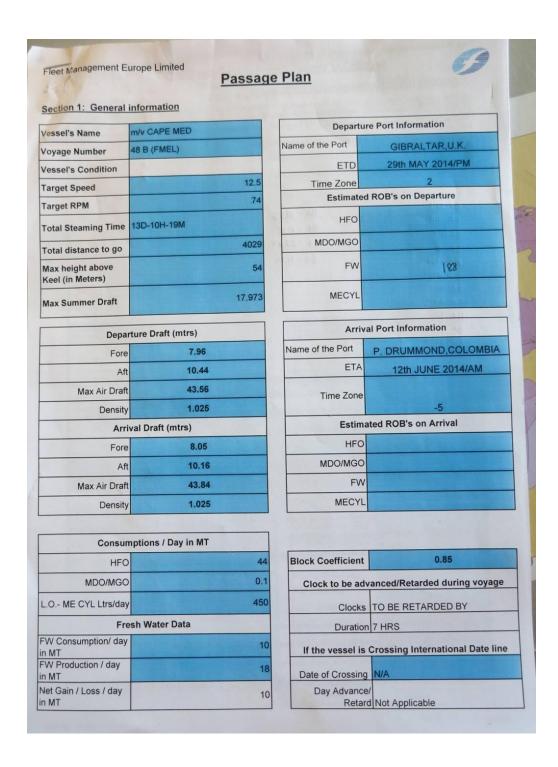
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30/5/14			from Gibralta VTS. At 0410 HRS	
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		100	MV. Le sheng on the port side,	
			allered course towards This	
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			incident, and owners, managers	
			port authorities notified as	
			per the detacled report. This	
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sientos sobre i	nteres :		na la atención del Capitán sobre los requisitos del Código Marítimo de la Repúbli ntion is called to the requirements of the Marítime Code of the Republic of Panama.	1

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# 13.10 Voyage Plan



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A. CHECKLIST FOR VOYAGE	GE PLANNING ON PAPER CHARTS  cale charts for all sea areas of the proposed voyage?  carry out Risk Assessment to identify hazards and control measures)	Yes / No Last NTM	20/11
(If answer is "No"	cale charts for all sea areas of the proposed voyage  carry out Risk Assessment to identify hazards and control measures)  carry out Risk Assessment to identify hazards and control measures)	Last NTM (Week/Year):_	22 IM
b) Check that all voyage char	ts are corrected to the latest Notices to Mariners	V	
c) Check that all voyage char	ts are corrected for T&P corrections from latest NTM	V	
d) All course lines plotted on	charts and way-points co-ordinates written alongside		
e) Check all way-points enter	ed in GPS and route created using these waypoints.		
B. LIST OF VOYAGE CHAR	TTS.		
10 MM	BA - 1966		
July Ba	Bb - 2195		
B&142	GD - 2267	100000	
60 M	84 - 1276	- 7/1	
BA 3132		34	
B & 4104		To the same of the same of	
7114 AB			
MY 0 24			
Br 181			
C. BELOW INFORMATION  a) Locations for: SPEED REDU  b) Areas where 2 Steering mo	TO BE MARKED ON CHARTS AS APPLICABLE  CTION / UNLASHING ANCHORS / ECHO SOUNDER "ON"  Potors to be switched "on" (if applicable)  Prominent Navigation & Radar conspicuous marks		
C. BELOW INFORMATION  a) Locations for: SPEED REDU  b) Areas where 2 Steering mc  c) Landfall targets & Lights / fi  d) Abort Point (refer BPM Sec.  e) Areas of significant Tides &  f) Position plotting interval &  g) Change-over position for m  h) Parallel Indexing while in pi	ction / UNLASHING ANCHORS / ECHO SOUNDER "ON"  prors to be switched "on" (if applicable)  Prominent Navigation & Radar conspicuous marks  3.3)  Currents / Minimum UKC / Possibility of banking effect  position plotting method for each leg (primary & secondary)  ext chart alongwith the chart number  llotage areas and during coastal navigation if applicable		
C. BELOW INFORMATION  a) Locations for: SPEED REDU  b) Areas where 2 Steering mo  c) Landfall targets & Lights / F  d) Abort Point (refer BPM Sec- e) Areas of significant Tides &  f) Position plotting interval &  g) Change-over position for m  h) Parallel Indexing while in pi  i) Clearing Lines & Bearings /	ction / UNLASHING ANCHORS / ECHO SOUNDER "ON"  ctors to be switched "on" (if applicable)  Prominent Navigation & Radar conspicuous marks  3.3)  Currents / Minimum UKC / Possibility of banking effect position plotting method for each leg (primary & secondary)  ext chart alongwith the chart number  llotage areas and during coastal navigation if applicable  Heading Marks / Leading Lines		
C. BELOW INFORMATION  a) Locations for: SPEED REDU  b) Areas where 2 Steering mo  c) Landfall targets & Lights / F  d) Abort Point (refer BPM Sec- e) Areas of significant Tides &  f) Position plotting interval &  g) Change-over position for m  h) Parallel Indexing while in pi  i) Clearing Lines & Bearings /	ction / UNLASHING ANCHORS / ECHO SOUNDER "ON"  prors to be switched "on" (if applicable)  Prominent Navigation & Radar conspicuous marks  3.3)  Currents / Minimum UKC / Possibility of banking effect  position plotting method for each leg (primary & secondary)  ext chart alongwith the chart number  llotage areas and during coastal navigation if applicable		
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C. BELOW INFORMATION  a) Locations for: SPEED REDU  b) Areas where 2 Steering mc  c) Landfall targets & Lights / F  d) Abort Point (refer BPM Sec- e) Areas of significant Tides &  f) Position plotting interval &  g) Change-over position for m  h) Parallel Indexing while in pi  i) Clearing Lines & Bearings /  j) No-go Areas (Mainly for dan  k) Wheel-over Position  l) Contingency Anchorage	ction / UNLASHING ANCHORS / ECHO SOUNDER "ON"  provides to be switched "on" (if applicable)  prominent Navigation & Radar conspicuous marks  3.3)  Currents / Minimum UKC / Possibility of banking effect position plotting method for each leg (primary & secondary)  ext chart alongwith the chart number  ilotage areas and during coastal navigation if applicable  Heading Marks / Leading Lines  agers to navigation close to the charted track)		
C. BELOW INFORMATION  a) Locations for: SPEED REDU  b) Areas where 2 Steering mo  c) Landfall targets & Lights / form  d) Abort Point (refer BPM Section)  e) Areas of significant Tides &  f) Position plotting interval &  g) Change-over position for many  h) Parallel Indexing while in pi  i) Clearing Lines & Bearings /  j) No-go Areas (Mainly for dark)  k) Wheel-over Position  l) Contingency Anchorage  m) VTS / Port Control / Pilot St	ction / UNLASHING ANCHORS / ECHO SOUNDER "ON"  stors to be switched "on" (if applicable)  Prominent Navigation & Radar conspicuous marks  3.3)  Currents / Minimum UKC / Possibility of banking effect position plotting method for each leg (primary & secondary)  ext chart alongwith the chart number  slotage areas and during coastal navigation if applicable  Heading Marks / Leading Lines  sigers to navigation close to the charted track)		
C. BELOW INFORMATION  a) Locations for: SPEED REDU  b) Areas where 2 Steering mo  c) Landfall targets & Lights / if  d) Abort Point (refer BPM Sec- e) Areas of significant Tides &  f) Position plotting interval &  g) Change-over position for no h) Parallel Indexing while in pi i) Clearing Lines & Bearings / j) No-go Areas (Mainly for dar k) Wheel-over Position l) Contingency Anchorage m) VTS / Port Control / Pilot St n) Cautionary Areas / Areas w	ction / UNLASHING ANCHORS / ECHO SOUNDER "ON"  stors to be switched "on" (if applicable)  Prominent Navigation & Radar conspicuous marks  3.3)  Currents / Minimum UKC / Possibility of banking effect position plotting method for each leg (primary & secondary)  ext chart alongwith the chart number  slotage areas and during coastal navigation if applicable  Heading Marks / Leading Lines  sigers to navigation close to the charted track)  ation Reporting Points  here heavy traffic or crossing traffic expected		
C. BELOW INFORMATION  a) Locations for: SPEED REDU  b) Areas where 2 Steering mc  c) Landfall targets & Lights / B  d) Abort Point (refer BPM Sec.  e) Areas of significant Tides &  f) Position plotting interval &  g) Change-over position for m  h) Parallel Indexing while in p  i) Clearing Lines & Bearings /  j) No-go Areas (Mainly for dai  k) Wheel-over Position  l) Contingency Anchorage  m) VTS / Port Control / Pilot St  n) Cautionary Areas / Areas w  o) Boundary of Special Areas (	ction / UNLASHING ANCHORS / ECHO SOUNDER "ON"  profess to be switched "on" (if applicable)  Prominent Navigation & Radar conspicuous marks  3.3)  Currents / Minimum UKC / Possibility of banking effect position plotting method for each leg (primary & secondary)  ext chart alongwith the chart number  ilotage areas and during coastal navigation if applicable  Heading Marks / Leading Lines  agers to navigation close to the charted track)  ation Reporting Points  here heavy traffic or crossing traffic expected  leg. SECA Area, ECA Area, Right Whale Area, Great Barrier Reef, etc.)		
C. BELOW INFORMATION  a) Locations for: SPEED REDU  b) Areas where 2 Steering mo  c) Landfall targets & Lights / form  d) Abort Point (refer BPM Section)  e) Areas of significant Tides &  f) Position plotting interval &  g) Change-over position for many  h) Parallel Indexing while in pi  i) Clearing Lines & Bearings /  j) No-go Areas (Mainly for dain  k) Wheel-over Position  l) Contingency Anchorage  m) VTS / Port Control / Pilot St  n) Cautionary Areas / Areas w  o) Boundary of Special Areas ( p) Nav warnings transmitted to	ction / UNLASHING ANCHORS / ECHO SOUNDER "ON"  ctors to be switched "on" (if applicable)  Prominent Navigation & Radar conspicuous marks  3.3)  Currents / Minimum UKC / Possibility of banking effect position plotting method for each leg (primary & secondary)  ext chart alongwith the chart number  ilotage areas and during coastal navigation if applicable  Heading Marks / Leading Lines  agers to navigation close to the charted track)  ation Reporting Points  here heavy traffic or crossing traffic expected  leg. SECA Area, ECA Area, Right Whale Area, Great Barrier Reef, etc.)  by satellite, Navtex, coast stations on VHF, etc.		
C. BELOW INFORMATION  a) Locations for: SPEED REDU  b) Areas where 2 Steering mo  c) Landfall targets & Lights / form  d) Abort Point (refer BPM Section of the section of	ction / UNLASHING ANCHORS / ECHO SOUNDER "ON"  profess to be switched "on" (if applicable)  Prominent Navigation & Radar conspicuous marks  3.3)  Currents / Minimum UKC / Possibility of banking effect position plotting method for each leg (primary & secondary)  ext chart alongwith the chart number  ilotage areas and during coastal navigation if applicable  Heading Marks / Leading Lines  agers to navigation close to the charted track)  ation Reporting Points  here heavy traffic or crossing traffic expected  leg. SECA Area, ECA Area, Right Whale Area, Great Barrier Reef, etc.)	V V V V V V V V V V V V V V V V V V V	

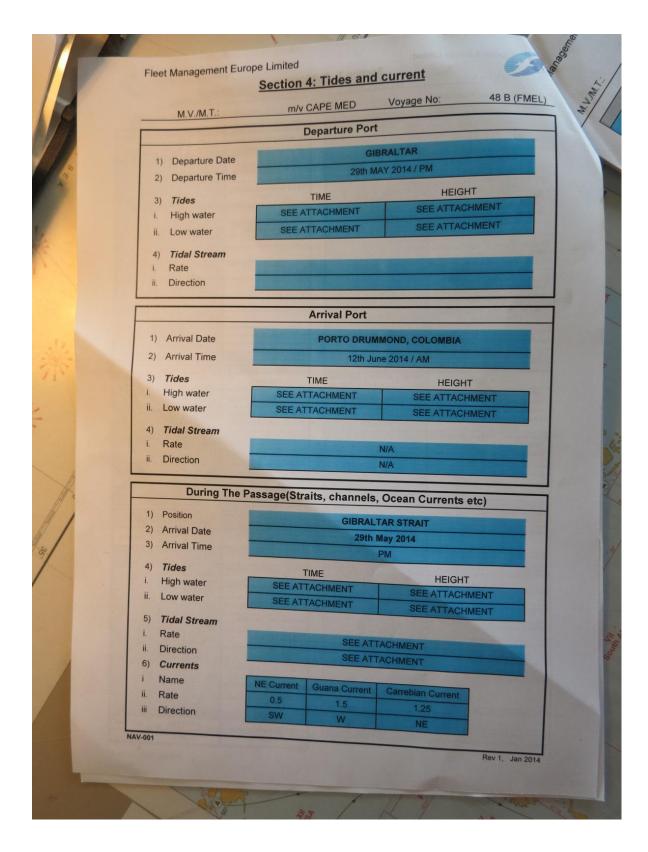
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M.V / M.T.  Voyage Charts corrected upto:		n/v CAPE		Ublications Voyage No:	48 B (F	MEL)	
Applicable Admiralty L		A-SIGNAL	141101 14dillo		-10-11	Nacellane	
List of Radio Signals	Latest Edition	Edition	Corrected to NTM No.	Applicable List Sailing Directions		Edition on 6	Corrected to NTM No.
NP281(1) Volume 1 - Part 1, Maritime Radio Stations (Europe, Africa and Asia excluding the Far East)			22/14	NP1 Africa Pilot Vol 1	15	15	22/14
NP281(2) Volume 1 - Part 2, Maritime Radio Stations (Oceania, the Americas and the Far East)	2013/14	2013/14	22/14	NP7A South America Pilot Vol 4	5	5	22/14
NP282 Volume 2, Radio Aids to Navigation, Satellite Navigation Systems, Legal Time, Radio Time Signals and Electronic Position Fixing Systems	2014/15	2014/15	22/14	NP67 West Coast of Spain and Portugal Pilot	11	11	22/14
NP283(1) Volume 3 - Part 1, Maritime Safety Information Services (Europe, Africa and Asia, excluding the Far East)	2013/14	2013/14	22/14	NP71 West Indies Pilot Vol 2	16	16	22/14
NP283(2) Volume 3 - Part 2, Maritime Safety Information Services (Oceania and the Americas and the Far East)	2013/14	2013/14	22/14				
NP284 Volume 4, Meteorological Observation Stations	2013/14	Marie Marie Co.	22/14				
INT 200(17) VOIDTHE OF TAR 17, CETTURAL	2013/14	2013/14	22/14 ADP 18/14			T PURPOS	
197 200(2) Volarie on Alt 2, Culture	2013/14						
Applicable Admiralty List of				Applicable A			
List of Lights	Latest Edition	Edition on board	to NTM No.	Tide tables	Latest Edition	Edition on board	Corrected to NTM No.
NP77 Volume D: Eastern Atlantic Ocean, Western Indian Ocean and Arabian Sea; from Goulet de Brest Southward, including off-lying Islands, to longitude 68° East	2013/14	2013/14	ADP 18/14	NP202 Volume 2, Europe (excluding United Kingdom and Ireland), Mediterranean Sea and Atlantic Ocean	2014	2014	ADP 18/14
NP82 Volume J: Western Side of North Atlantic Ocean; from Maine to Cabo Orange, including Gulf of Mexico and Carribean Sea	2013/14	2013/14	ADP 18/14				
		<b>BAG</b>					
Details of latest Radio/ Electronic	Broadcas	sts (Add ar	ny other	Applicable Miscellane	ous publica	tions (Add a	any other
information in the blank	spaces p		Applied on	publication in use in	n the blank	spaces pro	vided)
Details Navareas/ Hydrolants/ Hydropac		lable	charts	Publication	Latest Edition	Edition or board	Remarks
warnings  Vessel's present Navarea	YI	ES	YES	NP 131 Chart Catalogue	2014	2014	
Navareas to be transited		II	YES	NP 136 Ocean Passages of the world	5/2004	5/2004	B. St.
Navtex flocal area warnings?	III,	IV	YES	NP 100 Mariners hand book	9/2009	9/2009	
Navtex /local area warnings?  Navtex Areas selected	YE	S	YES	Guide to port entry	2014	2014	
Weather Facsimile broadcasts (List the	G,I		YES	Admiralty Co-Tidal Atlas	N.A	N.A	
Chart station)  Ocean routeing services		N,NOTEC		Tidal Stream Atlas	N.A	N.A	A CONTRACT
Radio Weather Broadcasts?	TRAC		YES	Load line Chart	2010	2010	
	YE	S	YES	Routeing charts & Guidance for Laden tanker routes off Dutch coast and South Africa	2012	2012	5124 (06)
Inmarsat Broadcasts (EGC warnings)	IN	1	YES				
Special area warnings	3		YES	NP 735 IALA Buovage	Arri	val port	Dep. Port
				System	Re	gion B	Region A
Special area warnings				NP 735 IALA Buoyage System		gion B	

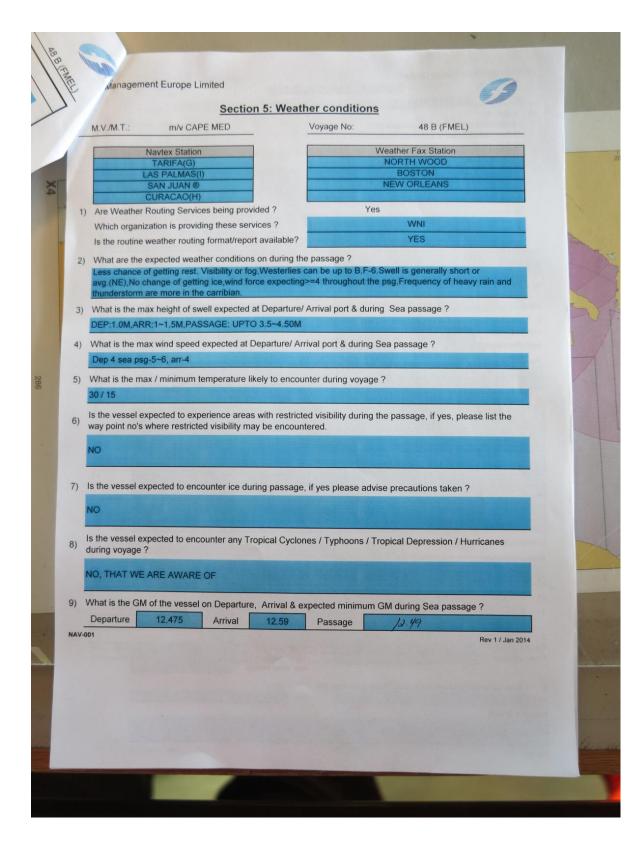
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					63	· e	1/1/
	Fleet Management Europ	be Limited	-ting Details			1	1
		Section 6: Repo	Voyage No	48 B	(FMEL)	4/	Note
4	M.V./M.T.: m/v CAF	PE MED	Voyes		NA		
	A) ENOA/D	1 10		Date	NA		
	ENOA/D to send (For U.	S Calling vessels only) of submission ENOA/D to NVMC/ S	SANS		NA		
A	If Yes , Expected Date C	ission ENOA/D to OFFICE REVIEW	N	Date	40/84C		1
5				has to be forwarded	to NVMC		
	1) Vessel to send ENOA	for office review prior sending same tering US Waters (Voyage type = Faters are required to send complete to Office on email ID fleet-ccmnav@	oreign to US).	s duly signed by the	Master and other		
	a) Vennels calling US Wa	aters are required to send completed	greatchin com prio	r entering US Waters	LIE to LIS!		
	maviguori g	us nort (different COTP zone) are in	equired	ios duly signed by th	e Master and other		
	4) Vessels departing US	ports are required to send complet Office on email ID fleet-comnav@	fleetship.com prio	r vessel's departure.	to NVMC atleast 6		
	waviganiig officers	- www.prior sending same	e to www. and -				
	hours prior departing	the berth (Voyage type = US to For			-		
	Remarks (If any)	THE RESERVE OF THE PERSON NAMED IN					
	NOME		The state of the s				
	B) PILOTS	La - Vien to be given to Dilet stati	on at arrival port.	The state of the s	96	The state of	
		ival notice to be given to Pilot stati BY AGENT	Hrs	2HRS			
	Days	on with pilot station (Email, VHF et	tc)			Aller Marie	
	2. Means of Communication VHF Channels 16 & 11		Email add	ess bauprespilots	bauprespilots.com	23 16165 1	
	Any other means						
	Remarks (If any)						
		n and before entering port area co	ntact port control or	VHF ch-71 for furth	er instructions	100000	
	C) VTS (Vessel traffic sys	stem)/ Ship's position reports do	TS Callsign VHF	Channel	Remarks		
	Gibraltar VTS While un		Gib VTS	12	ALRS286(1)		
	TARIFA TRAFFIC GIBRAL			10,16	ALRS286(1)		
9	Santa Marta Pilot   when en	tering VHF range	i.Marta PLT	16	ALRS286(7)		
8				STATE OF THE PERSON NAMED IN			
1							
133							
			THE RESIDENCE				
	Is Vessel participating in any	SRS Ship reporting system (eg AM	//VER/ AUSREP/ JASRE	EP etc)			
	Remarks (If any)						
	AMVER	A STATE OF THE PARTY OF THE PAR	AND DESCRIPTION OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUM	THE PERSON NAMED IN	THE REAL PROPERTY.		
	D) CHARTER			Maria Maria	and his in it.	Carl Carlot	
	D) CHARTERERS/ Age						
	1. Is any notice	o be given to Charterers/agents pr	rior departure /		Yes		
	<ol> <li>Is any notice required to Arrival and by what me</li> </ol>	alis			The State Bally	The marks	
	Means of Communicati						
	Means of Communicati     Email address	ion with Charterers/agents LS. SEE ON MASTER FILE	Email add	Iress		The state of the s	
	Means of Communicati	ion with Charterers/agents	Email add	Iress			
	Means of Communicati     Email address     Email address	ion with Charterers/agents LS. SEE ON MASTER FILE	Email add	Iress			
	Means of Communicati     Email address     Email address	ion with Charterers/agents	Email add Any other ys/ hrs	Iress			
	Means of Communication     Email address     Email address  3. Interval of notices to C	ion with Charterers/agents LS. SEE ON MASTER FILE	Email add	Iress			
	Means of Communication     Means of Communication     Means of Communication     Permail address     Interval of notices to Communication     All Y  Remarks (If any)	on with Charterers/agents LS. SEE ON MASTER FILE harterers/agents, Please state day	Email add Any other ys/ hrs Hrs	Iress			
	2. Means of Communicati Email address P Email address  3. Interval of notices to C Days DAILY Remarks (If any) NOON REPORTS TO CHAI	ion with Charterers/agents LS. SEE ON MASTER FILE	Email add Any other ys/ hrs Hrs	Iress			
	Means of Communication     Means of Communication     Means of Communication     Permail address     Interval of notices to Communication     All Y  Remarks (If any)	on with Charterers/agents LS. SEE ON MASTER FILE harterers/agents, Please state day	Email add Any other ys/ hrs Hrs	Iress			
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	2. Means of Communicati Email address P Email address  3. Interval of notices to C Days DAILY Remarks (If any) NOON REPORTS TO CHAI	on with Charterers/agents LS. SEE ON MASTER FILE harterers/agents, Please state day	Email add Any other ys/ hrs Hrs	Iress	Rev 1 / Jan 201		

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Se	ection 7: BRIDGE MA	NAGEMENT TEAM								
The second secon			B B (FMEL)							
Note: Cadets and any other re			rt of the bridge team.							
1. AT SEA										
RESPONSIBILITY	0000 - 0400 & 1200 - 1600	0400-0800 & 1600- 2000	0800 - 1200 & 2000 - 2400							
oow	2/O F. FLORES	C/O K.DEEPAK	3/O PAGUNTALAN							
Lookout	AB GUZMAN	AB BALAGTAS	AB BALASABAS							
2. AT SEA, IN RESTRICTED VISIBILITY										
RESPONSIBILITY	0000 - 0400 &	0400-0800 &	0800 - 1200 & 2000 - 2400							
Master should be present on brid	1200 - 1600	y or any other time deemed ne								
Master should be present on brid	2/O F. FLORES	C/O K.DEEPAK	3/O PAGUNTALAN							
Lookout	OS TAYTAY	BSN	DK.CDT/BSN							
Helmsman (If required)	AB GUZMAN	AB BALAGTAS	AB BALASABAS							
RESPONSIBILITY	1200 - 1600	1600- 2000	2000 - 2400							
Maeter should be present on bri	dge during the time of arrival/ d	eparture port.								
Master should be present on bri	dge during the time of arrival/ d	c/O K.DEEPAK	3/O PAGUNTALAN							
	dge during the time of arrival/ d	C/O K.DEEPAK AB BALAGTAS	AB BALASABAS							
OOW	dge during the time of arrival/ d	C/O K.DEEPAK								
OOW Helmsman Lookout	dge during the time of arrival/ d 2/O F. FLORES AB GUZMAN	C/O K.DEEPAK AB BALAGTAS	AB BALASABAS							
OOW Helmsman	dge during the time of arrival/ d 2/O F. FLORES AB GUZMAN	C/O K.DEEPAK AB BALAGTAS	AB BALASABAS							
OOW Helmsman Lookout  4. PILOTAGE WATERS	dge during the time of arrival/ d 2/O F. FLORES AB GUZMAN OS TAYTAY  0000 - 0400 & 1200 - 1600 dge during the pilotage.	C/O K.DEEPAK  AB BALAGTAS  BSN  0400-0800 & 1600-2000	AB BALASABAS  DK.CDT/BSN  0800 - 1200 & 2000 - 2400							
OOW Helmsman Lookout  4. PILOTAGE WATERS RESPONSIBILITY	dge during the time of arrival/ d 2/O F. FLORES AB GUZMAN OS TAYTAY  0000 - 0400 & 1200 - 1600 dge during the pilotage. 2/O F. FLORES	C/O K.DEEPAK  AB BALAGTAS  BSN  0400-0800 & 1600-2000  C/O K.DEEPAK	AB BALASABAS  DK.CDT/BSN  0800 – 1200 & 2000 - 2400  3/O PAGUNTALAN							
OOW Helmsman Lookout  4. PILOTAGE WATERS RESPONSIBILITY Master should be present on bri OOW Helmsman	dge during the time of arrival/ d 2/O F. FLORES AB GUZMAN OS TAYTAY  0000 - 0400 & 1200 - 1600 dge during the pilotage. 2/O F. FLORES AB GUZMAN	C/O K.DEEPAK AB BALAGTAS BSN  0400-0800 & 1600-2000  C/O K.DEEPAK AB BALAGTAS	AB BALASABAS  DK.CDT/BSN  0800 – 1200 & 2000 - 2400  3/O PAGUNTALAN  AB BALASABAS							
OOW Helmsman Lookout  4. PILOTAGE WATERS RESPONSIBILITY Master should be present on bri OOW Helmsman	dge during the time of arrival/ d 2/O F. FLORES AB GUZMAN OS TAYTAY  0000 - 0400 & 1200 - 1600 dge during the pilotage. 2/O F. FLORES AB GUZMAN OS TAYTAY	C/O K.DEEPAK AB BALAGTAS BSN  0400-0800 & 1600-2000  C/O K.DEEPAK AB BALAGTAS BSN	AB BALASABAS DK.CDT/BSN  0800 - 1200 & 2000 - 2400  3/O PAGUNTALAN AB BALASABAS DK.CDT/BSN							
OOW Helmsman Lookout  4. PILOTAGE WATERS RESPONSIBILITY Master should be present on bri OOW Helmsman	dge during the time of arrival/ d 2/O F. FLORES AB GUZMAN OS TAYTAY  0000 - 0400 & 1200 - 1600 dge during the pilotage. 2/O F. FLORES AB GUZMAN OS TAYTAY	C/O K.DEEPAK AB BALAGTAS BSN  0400-0800 & 1600-2000  C/O K.DEEPAK AB BALAGTAS BSN	AB BALASABAS DK.CDT/BSN  0800 - 1200 & 2000 - 2400  3/O PAGUNTALAN AB BALASABAS DK.CDT/BSN							
OOW Helmsman Lookout  4. PILOTAGE WATERS RESPONSIBILITY Master should be present on bri OOW Helmsman Lookout Note: Under prolonged pilotage the Chief Officer.	dge during the time of arrival/ d 2/O F. FLORES AB GUZMAN OS TAYTAY  0000 - 0400 & 1200 - 1600 dge during the pilotage. 2/O F. FLORES AB GUZMAN OS TAYTAY or similar circumstances, or i	C/O K.DEEPAK  AB BALAGTAS  BSN  0400-0800 & 1600-2000  C/O K.DEEPAK  AB BALAGTAS  BSN  f he is tired, the Master may	AB BALASABAS DK.CDT/BSN  0800 - 1200 & 2000 - 2400  3/O PAGUNTALAN AB BALASABAS DK.CDT/BSN							
Helmsman Lookout  4. PILOTAGE WATERS  RESPONSIBILITY  Master should be present on bri OOW Helmsman Lookout  Note: Under prolonged pilotage the Chief Officer.  5. HIGHEST LEVEL OF BI RESPONSIBILITY	dge during the time of arrival/ d 2/O F. FLORES AB GUZMAN OS TAYTAY  0000 - 0400 & 1200 - 1600 dge during the pilotage. 2/O F. FLORES AB GUZMAN OS TAYTAY or similar circumstances, or in  RIDGE MANNING (AT MA: 0000 - 0400 & 1200 - 1600	C/O K.DEEPAK  AB BALAGTAS  BSN  0400-0800 & 1600-2000  C/O K.DEEPAK  AB BALAGTAS  BSN  f he is tired, the Master may  STER'S DISCRETION)  0400-0800 & 1600-2000	AB BALASABAS DK.CDT/BSN  0800 - 1200 & 2000 - 2400  3/O PAGUNTALAN AB BALASABAS DK.CDT/BSN							
OOW Helmsman Lookout  4. PILOTAGE WATERS RESPONSIBILITY Master should be present on bri OOW Helmsman Lookout Note: Under prolonged pilotage the Chief Officer.  5. HIGHEST LEVEL OF Bri	dge during the time of arrival/ d 2/O F. FLORES AB GUZMAN OS TAYTAY  0000 - 0400 & 1200 - 1600 dge during the pilotage. 2/O F. FLORES AB GUZMAN OS TAYTAY or similar circumstances, or i	C/O K.DEEPAK  AB BALAGTAS  BSN  0400-0800 & 1600-2000  C/O K.DEEPAK  AB BALAGTAS  BSN  If he is tired, the Master may  STER'S DISCRETION)  0400-0800 & 1600-2000	AB BALASABAS DK.CDT/BSN   0800 – 1200 & 2000 - 2400  3/O PAGUNTALAN AB BALASABAS DK.CDT/BSN at his discretion, be relieved  0800 – 1200 & 2000 - 2400							
Helmsman Lookout  4. PILOTAGE WATERS  RESPONSIBILITY  Master should be present on bri OOW Helmsman Lookout Note: Under prolonged pilotage the Chief Officer.  5. HIGHEST LEVEL OF BI RESPONSIBILITY  Master should be present on bri OOW	dge during the time of arrival/ d 2/O F. FLORES AB GUZMAN OS TAYTAY  0000 - 0400 & 1200 - 1600 dge during the pilotage. 2/O F. FLORES AB GUZMAN OS TAYTAY or similar circumstances, or in  RIDGE MANNING (AT MAN) 1200 - 1600 dge during this Manning Level 2/O F. FLORES	C/O K.DEEPAK  AB BALAGTAS  BSN  0400-0800 & 1600-2000  C/O K.DEEPAK  AB BALAGTAS  BSN  f he is tired, the Master may  STER'S DISCRETION)  0400-0800 & 1600-2000  C/O K.DEEPAK	AB BALASABAS DK.CDT/BSN   0800 – 1200 & 2000 - 2400  3/O PAGUNTALAN AB BALASABAS DK.CDT/BSN at his discretion, be relieved  0800 – 1200 & 2000 - 2400							
Helmsman Lookout  4. PILOTAGE WATERS  RESPONSIBILITY  Master should be present on bri OOW Helmsman Lookout Note: Under prolonged pilotage the Chief Officer.  5. HIGHEST LEVEL OF BI RESPONSIBILITY  Master should be present on bri OOW Additional Officer	dge during the time of arrival/ d 2/O F. FLORES AB GUZMAN OS TAYTAY  0000 - 0400 & 1200 - 1600 dge during the pilotage. 2/O F. FLORES AB GUZMAN OS TAYTAY or similar circumstances, or in  RIDGE MANNING (AT MA: 0000 - 0400 & 1200 - 1600 dge during this Manning Level 2/O F. FLORES 3/O PAGUNTALAN	C/O K.DEEPAK AB BALAGTAS BSN  0400-0800 & 1600-2000  C/O K.DEEPAK AB BALAGTAS BSN If he is tired, the Master may  STER'S DISCRETION)  0400-0800 & 1600-2000  C/O K.DEEPAK 2/O F. FLORES	AB BALASABAS DK.CDT/BSN   0800 – 1200 & 2000 - 2400  3/O PAGUNTALAN AB BALASABAS DK.CDT/BSN at his discretion, be relieved  0800 – 1200 & 2000 - 2400  3/O PAGUNTALAN C/O K.DEEPAK							
Helmsman Lookout  4. PILOTAGE WATERS  RESPONSIBILITY  Master should be present on bri OOW Helmsman Lookout Note: Under prolonged pilotage the Chief Officer.  5. HIGHEST LEVEL OF BI RESPONSIBILITY  Master should be present on bri OOW	dge during the time of arrival/ d 2/O F. FLORES AB GUZMAN OS TAYTAY  0000 - 0400 & 1200 - 1600 dge during the pilotage. 2/O F. FLORES AB GUZMAN OS TAYTAY or similar circumstances, or in  RIDGE MANNING (AT MAN) 1200 - 1600 dge during this Manning Level 2/O F. FLORES	C/O K.DEEPAK  AB BALAGTAS  BSN  0400-0800 & 1600-2000  C/O K.DEEPAK  AB BALAGTAS  BSN  f he is tired, the Master may  STER'S DISCRETION)  0400-0800 & 1600-2000  C/O K.DEEPAK	AB BALASABAS DK.CDT/BSN   0800 – 1200 & 2000 - 2400  3/O PAGUNTALAN AB BALASABAS DK.CDT/BSN at his discretion, be relieved  0800 – 1200 & 2000 - 2400							

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		Section 15: N	Master's review	v of passage pla	an an	<b>E</b> 3
	M.V/M.T	m/v CAPE MED		Voyage No:	48 B (FMEL)	
	Dep Port:	GIBRALTAR,U.K.		Arr. Port:	P. DRUMMO	ND,COLOMB
		General information vant information filled up in the Set	up Page ?		YES	NO N/
		Nautical Charts ts on board for the passage and a	e the largest scale	charts in use ?	V	
	Has all rele	vant information including below be Areas where speed reduction is		n chart being used?		
		Areas where two steering motor		switched ON	V	
		Areas where echo sounder shou			~	
-		Crossing and high density traffic				
1		Call Points' for Master	urous III and		V	
					V	
		Notices to Engine Room	Managla			
		Manning of Engine Room (UMS		\$ 11-10. W	V	_
		er 'Abort Point' been marked ? Indi allow Water Effect' and 'Banking E			V	
	Section - 3 Have all req section 3? Has relevan Section - 4 Has all relev Section - 5	n alternate location been identified  Publications puired Publications been identified Voyage Publications corrected to I at information been extracted from  Tides & current vant information regarding tides &  Weather conditions rice from Weather routeing agenci	and relevant inforn NTM no. required publicatio current filled in sec			
	Has all relev Vessels calli will be send	Reporting details vant reporting requirements as list ing/ Departing US ports, duly sign to office on email ID <u>fleet-ccmnav</u> Bridge team management	ed copies of compl			
	Has watch s	chedule/ manning requirements a with all Navigating officers and Und		n Management	V	
		ISPS requirements S Section fully filled in and require	ed precautions take	en ?	V	
		Environment requirements evant answers been filled up regar oyage?	ding environmenta	al aspect		

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Voyage No. V 42E	3		Voyag	e Description SIBRALTER			
Port GIBR	ALTER		DEP.C	SIBRALILLI			
Terminal							
Date 30.05	.14						
Seawater Density:	1.025 t/m3						
WATER BALLAST FUEL OIL	52 19	127 mt 997 mt 117 mt	Draught F	Л.	7.90 9.2	3 m	
DIESEL OIL FRESH WATER		200 mt	Draught A Trim GM corre GM Limit GM Rese max. B.M	cted erve	12.4 0.2 12.2 -6	9 m 7 m 0 m	SEA
		510 mt	max. S.F.		-0	2 70	
Stores / Misc.		610 mt	Lever Ba	lance			OK OK
Holds			Total Light	it Calculation Dwt Ship cement		78561 mt 22125 mt 100686 mt	
			Dispia	Comon			

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	ks	FS(m*t) De	ens. %
NAME OF TAXABLE PARTY.	_CG(m) Snd(m)	10(11.4)	.0250 98
### FORE PEAK TANK WBT1P NO.1 TS DB WBT P WBT2P NO.2 TS DB WBT P WBT2S NO.2 TS DB WBT P WBT3S NO.3 TS DB WBT P WBT3S NO.3 TS DB WBT P WBT3S NO.3 TS DB WBT P WBT4P NO.4 TS DB WBT P WBT4R NO.4 TS DB WBT S WBT5P NO.5 TS DB WBT S WBT5P NO.5 TS DB WBT S WBT5P NO.5 TS DB WBT S APT AFT PEAK TANK SLOP NO.5 TS WBT/SLOP P DBT5P NO.5 DB WBT P	252.87 24.71 252.87 24.71 213.25 24.67 213.26 24.67 162.02 24.66 162.02 24.66 110.55 24.66	0 1 0 1 2946 1 0 0 0 0 0 0 0 452 432 0 0 0	1,0250 98 1,0250 98 1,0250 98 1,0250 98 1,0250 98 1,0250 98 1,0250 98 1,0250 98 1,0250 60 1,0250 60 1,0250 0 1,0250 0 1,0250 0
Total WATER BALLAST : 52127.3		3831	0.9700 33
FOTTP NO.1 FOT P FOTTS NO.1 FOT S FOT2P NO.2 FOT P FOT2S NO.2 FOT S FOT2S NO.2 FOT S	28.57 10.83 14.73 8.9	3 573 0 933 6 933	0.9700 43 0.9700 55 0.9700 46
Total FUEL OIL : 1996.6	21.31	3165	0.8500 81
DOT1S NO.1 DOT S 105.2 DOT2S NO.2 DOT S 11.5	28.97 0.4		0.8500 81 0.8500 7
Total DIESEL OIL : 116.7			1.0000 37
FRESH FRESH WATER 100.0 DRINK DRINK. WATER 1 DRINK DRINK WATER 200.0	6.52 2.4	-000	1.0000 37
Total FRESH WATER : 200.0	0.32	7802	
11010	Holds reight(t) LCG(	(m) Snd(m) M 3.91 0.00	//gr/FS(m*t)
NO.1 CARGO HOLD (coal) NO.2 CARGO HOLD (coal) NO.3 CARGO HOLD (coal) NO.4 CARGO HOLD (coal) NO.5 CARGO HOLD (coal) NO.6 CARGO HOLD (Tankhold) NO.7 CARGO HOLD (coal) NO.8 CARGO HOLD (coal) NO.9 CARGO HOLD (coal)	0.0 22 0.0 20 0.0 17 0.0 15 23610.0 12 0.0 9 0.0 7	0.00 1.96 0.00 0.36 0.00 0.36 0.00 0.36 0.00 0.36 0.00 0.36 0.00 0.00	0 0 0 0 0 0 0 0 0
Total OTHER: Total ore: Total coal: Total Cargo Grade - A: Total Cargo Grade - B: Total Cargo Grade - C: Total Cargo Grade - D: Total Cargo Grade - D: Total Cargo Grade - E:	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 23610.0	0.00	
Total Tankhold:		25.47	0

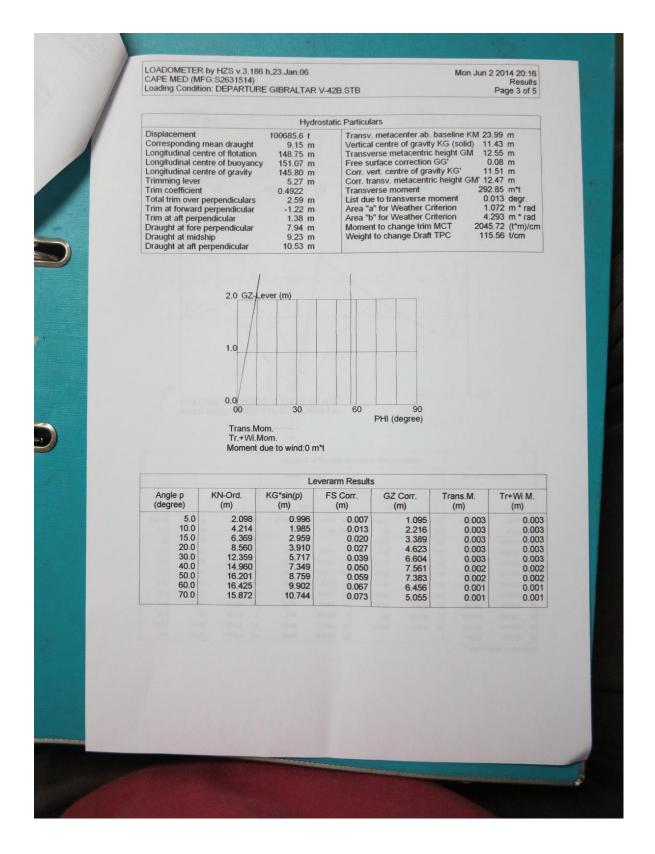
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Loading Condition:			reak Bulk					e 2 of 5
Iter	n	Weight(t)	LCG(m)	VCG(m)	TCG(m)	WDA(m)	WD	F(m)
Constant Fore		45.0	273.00	21.50	0.00	268.53		280.53
Constant Mid		120.0 60.0		3.25 9.57	0.00	33.75 -2.25		268.53 9.75
Constant Aft Constant Eng		285.0		16.28	0.00	15.35		33.75
Total Brea	ak Bulk	510.0	71.55	12.89	0.00			
		Loadin	g Condition	total				
	\A/oight/t\		VCG(m) T					
Break Bulk	Weight(t) 510.0		12.89	0.00		add. Fr.S		0.0 m*t
Tanks	54440.6	160.62	9.65	0.01		Fr.Su	rf.: 78	02.4 m*t
Holds Dood\Moight	23610.0 78560.6		13.44	0.00		Fr.Su	rf.: 78	02.4 m*t
DeadWeight Light Ship	22125.0		13.65	0.00				
Displacement	100685.6	145.80	11.43	0.00			Si	ımmer(1)
Deadw.Reserve	107266.4						30	iiiiei(1)
		Draughts at	Marks, Tri	m and List				
k			4	I.				m.a.bok
					D	ught corr		9.15
NA.		1		-				47 070
		1	p	S	Drai	ught max		17.973 10.44
M	ruuru	wy.	P	S	Drai Drai Drai	ught max ught aft. ught mid.		10.44 9.23
		- J	List due to	o transvers	Draid	ught max ught aft. ught mid. ught fore. ttern: 0.5 (degree) tty of Sea ler Immel	53 degree ): 0.01 awater: rsion Ra	10.44 9.23 7.96 ee (2.59 m
R.M.: 43.661 HC5: 18.411			AirDraft: HC8: 17.7 HC3: 18.8	o transvers	Draid	ught max ught aft. ught mid. ught fore. ttern: 0.5 (degree) ty of Sea ler Immel Visi	53 degre ): 0.01 awater: rsion Ra ibility Lir	10.44 9.23 7.96 ee (2.59 m (starboard 1.025 t/m atio 80.9 %
R.M.: 43.66 r		.65 m	AirDraft: HC8: 17.7 HC3: 18.8	o transvers	Drau Drau Drau Drau Drau Trim by s e moment Densi Propell	ught max ught aft. ught mid. ught fore. ttern: 0.5 (degree) ty of Sea ler Immel Visi	53 degre ): 0.01 awater: rsion Ra ibility Lir	10.44 9.23 7.96 ee (2.59 m (starboard 1.025 t/m atio 80.9 % ne: 554 n
R.M.: 43.66 i	m HC4: 18	.65 m	AirDraft: HC8: 17.7	o transvers	Drau Drau Drau Drau Drau Trim by s e moment Densi Propell	ught max ught aft. ught mid. ught fore. tem: 0.5 (degree) ty of Sea ler Immer Visi .94 m .13 m	53 degre ): 0.01 awater: rsion Ra ibility Lir	10.44 9.23 7.96 ee (2.59 m (starboard 1.025 t/m atio 80.9 % ne: 554 n
R.M.: 43.66 i HC5: 18.41 i	m HC4: 18	.65 m	AirDraft: HC8: 17.7 HC3: 18.8	o transvers	Drau Drau Drau Drau Drau Trim by s e moment Densi Propell HC7: 17 HC2: 19	ught max ught aft. ught mid. ught fore tetem: 0.5 (degree) ty of Sea ler Immei Visi .94 m .13 m	53 degree ; 0.01 of awater: rsion Ra ibility Lir HC	10.44 9.23 7.96 ee (2.59 m (starboard 1.025 t/m atio 80.9 9 ee: 554 n 66: 18.18 n 11: 19.37 n
R.M.: 43.66 r HC5: 18.41 r	m HC4: 18	.65 m Stability	AirDraft: HC8: 17.7 HC3: 18.8	o transvers	Drau Drau Drau Drau Drau Drau Drau Drau	ught max ught aft. ught mid. ught mid. ught fore teem: 0.5 ((degree) ty of Sea ler Immer Visi .94 m .13 m	53 degree ): 0.01 hwater: rsion Rabibility Lin HC HC	10.44 9.23 7.96 ee (2.59 m (starboard 1.025 t/m atio 80.9 % ne: 554 n 26: 18.18 t 11: 19.37 t
R.M.: 43.66 i HC5: 18.41 i	HC4: 18	Stability	AirDraft: HC8: 17.7 HC3: 18.8	o transvers	Drau Drau Drau Drau Drau Drau Drau Drau	ught max ught aft. ught mid. ught fore teem: 0.5 (degree) ty of Sea ler Immer Visi .94 m .13 m	53 degree 53 degree 53 cegree 53 degree 53 degree 54 cegree 55 cegree 56 cegree 57 cegree 58 cegree	10.44 9.23 7.96 me (2.59 me (2.59 me) 10.25 t/m atio 80.9 9 me: 554 n 66: 18.18 t 11: 19.37 t
R.M.: 43.66 r HC5: 18.41 r Level Ediana ( GM' (corrected) Angle due to trar Angle due to Wir Max. lever GZ at	m HC4: 18  nsverse Moment nd + transverse M angle >=30 degr	Stability	AirDraft: HC8: 17.7 HC3: 18.8	o transvers	Drau Drau Drau Drau Drau Drau Drau Drau	ught max ught aft. ught mid. ught fore tetem: 0.5 (degree) ty of Sea ler Immel Visi .94 m .13 m	53 degree ): 0.01 hwater: rsion Rabibility Lin HC HC	10.44 9.23 7.96 ee (2.59 m (starboard 1.025 t/m atio 80.9 % ee: 554 n 66: 18.18 n 10: 19.37 n m degr. degr. m
R.M.: 43.66 r HC5: 18.41 r GM' (corrected) Angle due to trar Angle due to Wir Max. lever GZ at Angle of max rig Area up to 30 De	m HC4: 18  nsverse Moment nd + transverse M t angle >= 30 degr htting lever GZ agrees	Stability	AirDraft: HC8: 17.7 HC3: 18.8	o transvers	Drau Drau Drau Drau Drau Drau Drau Drau	ught max ught aft. ught mid. ught mid. ught fore teem: 0.5 ((degree) ty of Sealer Immer Visi .94 m .13 m	63 degree ; 0.01 of the second secon	10.44 9.23 7.96 le (2.59 m (starboard 1.025 t/m atio 80.9 % ne: 554 n 26: 18.18 t 11: 19.37 t
R.M.: 43.66 n HC5: 18.41 n GM' (corrected) Angle due to tran Angle due to Win Max. lever GZ at Angle of max rig Area up to 30 De Area up to 40 De	nsverse Moment nd + transverse M angle >=30 degr htting lever GZ egrees agrees	Stability	AirDraft: HC8: 17.7 HC3: 18.8	o transvers	Drau Drau Drau Drau Drau Drau Drau Drau	ught max ught aft. ught mid. ught mid. ught fore tern: 0.5 (degree) ty of Sealer Immer Visi .94 m .13 m	63 degree ): 0.01 of the second of the seco	10.44 9.23 7.96 ee (2.59 m (starboard 1.025 t/m atio 80.9 9 ee: 554 n 66: 18.18 t 1: 19.37 t m degr. degr. m * rad m * rad
R.M.: 43.66 i HC5: 18.41 i Max. Polarica (Corrected) Angle due to tran Angle due to Win Max. lever GZ at Angle of max rig Area up to 40 De Area between 30	nsverse Moment nd + transverse M angle >=30 degr hting lever GZ agrees agrees and 40 Degrees	Stability	AirDraft: HC8: 17.7 HC3: 18.8	o transvers	Drau Drau Drau Drau Drau Drau Drau Drau	ught max ught aft. ught mid. ught mid. ught fore tern: 0.5 (degree) ty of Sea ler Immer Visi .94 m .13 m	63 degree ): 0.01 of the second of the seco	10.44 9.23 7.96 9e (2.59 m (starboard 1.025 t/m atio 80.9 % 9e: 554 n 66: 18.18 n 10: 19.37 n 10: 19. 19. 19. 19. 19. 19. 19. 19. 19. 19.
R.M.: 43.66 in HC5: 18.41 in H	nsverse Moment nd + transverse M angle >=30 degr hting lever GZ agrees agrees and 40 Degrees	Stability	AirDraft: HC8: 17.7 HC3: 18.8	o transvers	Drau Drau Drau Drau Drau Drau Drau Drau	ught max ught aft. ught mid. ught mid. ught fore tern: 0.5 (degree) ty of Sealer Immer Visi .94 m .13 m	63 degree ): 0.01 of the second of the seco	10.44 9.23 7.96 ee (2.59 m (starboard 1.025 t/m atio 80.9 9 ee: 554 n 66: 18.18 t 1: 19.37 t m degr. degr. m * rad m * rad

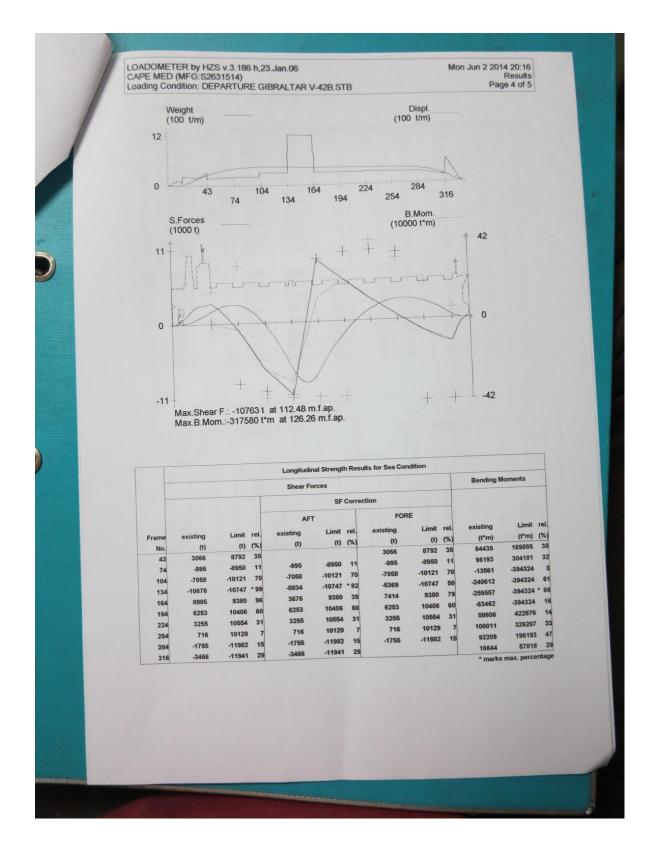
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