



**BUREAU
VERITAS**

INTERNATIONAL CLASSIFICATION SOCIETY

CERTIFICATE OF CLASSIFICATION

Nr GGZ0/UXX/20140224122919

RADHWA 24

Ship's Name

KINGDOM OF SAUDI ARABIA

Flag

RED SEA MARINE SERVICES CO. LTD

Owners

22831T

Register Nr

JEDDAH

Port of Registry

This is to certify that the above named ship has been entered in the Bureau Veritas Register Book with the following classification symbols and notations

**I ☒ HULL ☒ MACH
Tug ; Fire fighting ship 1 -water spraying
Unrestricted navigation
☒ AUT-UMS**

This certificate is issued within the scope of Bureau Veritas Marine & Offshore Division General Conditions.

At Guangzhou, P.R.China

on 11 April 2014

Limit date of validity

10 April 2019

Simon Yin

By Order of the Secretary

P. P. Signature and stamp



Conditions and endorsements overleaf.

Any person not a party to the contract pursuant to which this certificate is delivered may not assert a claim against Bureau Veritas for any liability arising out of errors or omissions which may be contained in said certificate, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in the establishment or issuance of this certificate, and in connection with any activities which it may provide for.

ENDORSEMENT FOR ANNUAL AND INTERMEDIATE SURVEYS

The endorsements refer to the completion of periodical surveys only.

Annual survey 1
(from 10-jan-2015 to 10-jul-2015)

Completed at: Carried out before 09/03/2014

on: Refer to ship survey status

by:

Name, Signature and stamp

Annual survey 2
(from 10-jan-2016 to 10-jul-2016)

Completed at: Carried out before 09/03/2014

on: Refer to ship survey status

by:

Name, Signature and stamp

Intermediate survey
(from NA to NA)

Completed at:

on:

by:

Name, Signature and stamp

Annual survey 3
(from 10-jan-2017 to 10-jul-2017)

Completed at: Carried out before 09/03/2014

on: Refer to ship survey status

by:

Name, Signature and stamp

Annual survey 4
(from 10-jan-2018 to 10-jul-2018)

Completed at: Carried out before 09/03/2014

on: Refer to ship survey status

by:

Name, Signature and stamp

Conditions of validity:

1. This certificate remains the property of Bureau Veritas.
2. This certificate cannot be used in connection with the sale of ship without permission of the Society.
3. The validity of the assigned class is conditioned upon due compliance with the requirements of chapter 2 of the Rules regarding notably adequate maintenance and operation of the ship and declaration of defects to the Society.
4. The latest published Rules of Bureau Veritas Marine & Offshore Division and the General Conditions are applicable.



SHORT TERM* (see page 2)
 INTERIM

No GGZ0/UXX/20140225164113

INTERNATIONAL LOAD LINE CERTIFICATE

Issued under the provisions of the
INTERNATIONAL CONVENTION ON LOAD LINES, 1966,
in accordance with Assembly resolution A.883(21) relating to the global implementation of the harmonized
system of survey and certification, under the authority of the Government of

THE KINGDOM OF SAUDI ARABIA

By BUREAU VERITAS

Name of Ship	Distinctive Number or Letters	Port of Registry	Length (L) as defined in Article 2(8) (m)	IMO Number
BV Register : 22831T RADHWA 24	H Z J A	JEDDAH	32.045	9688037

Freeboard assigned as : New ship Type of Ship Type "B"

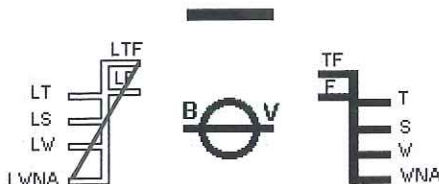
	Freeboard from reference line	Load line
Tropical	773 mm (T)	78 mm / above (S)
Summer	851 mm (S)	Upper edge of line through centre of ring.
Winter	929 mm (W)	78 mm / below (S)
Winter North Atlantic	979 mm (WNA)	128 mm / below (S)
Timber Tropical	- mm (LT)	- mm / above (LS)
Timber Summer	- mm (LS)	- mm / above (S)
Timber Winter	- mm (LW)	- mm / below (LS)
Timber Winter North Atlantic	- mm (LWNA)	- mm / below (LS)

Note : Freeboards and load lines which are not applicable need not be entered on the certificate. Subdivision load lines may be entered on the certificate on a voluntary basis.

Allowance for fresh water for all freeboards other than timber 59 mm.

For timber freeboards - mm.

The upper edge of the reference line from which these freeboards are measured is 400mm from the top of steel upper deck at side.



THIS IS TO CERTIFY :

1. That the ship has been surveyed in accordance with the requirements of article 14 of the Convention.
2. That the survey showed that the freeboards have been assigned and load lines shown above have been marked in accordance with the Convention.

This certificate is valid until ***10 September 2014,**

Completion date of the survey on which this certificate is based : 11/04/2014

Issued at Guangzhou, P.R.China, on the 11 April 2014



**BUREAU
VERITAS**

*Short term maximum validity 2 months.
Interim maximum validity 5 months

BUREAU VERITAS
REGISTRE INTERNATIONAL
PARIS 1828

Simon Yin
By Order of the Secretary

PROVISIONAL INTERNATIONAL LOAD LINE CERTIFICATE No : GGZ0/UXX/20140225164113
NAME OF SHIP : RADHWA 24
BV REGISTER : 22831T

Details of Recommendations :

***** NOT APPLICABLE *****

Notes :

- 1. When a ship departs from a port situated on a river or inland waters, deeper loading shall be permitted corresponding to the weight of fuel and all other materials required for a consumption between the point of departure and the sea.*
- 2. When a ship is in fresh water of unit density the appropriate load line may be submerged by the amount of the fresh water allowance shown above. Where the density is other than unity, an allowance shall be made proportional to the difference between 1.025 and the actual density.*



SHORT TERM* (see page 2)

No GGZ0/UXX/20140228155637

INTERIM

CARGO SHIP SAFETY RADIO CERTIFICATE

This Certificate shall be supplemented by a Record of Equipment of Radio Facilities (Form R)

Issued under the provisions of the
INTERNATIONAL CONVENTION FOR THE SAFETY OF LIFE AT SEA, 1974,
in accordance with Assembly resolution A.883(21) relating to the global implementation of the harmonized
system of survey and certification, under the authority of the Government of

THE KINGDOM OF SAUDI ARABIA

by BUREAU VERITAS

Name of Ship	Distinctive Number or Letters	Port of Registry	Gross Tonnage	IMO Number
BV No : 22831T				
RADHWA 24	H Z J A	JEDDAH	486	9688037

Sea areas in which ship is certified to operate (regulation IV/2) A1+A2+A3

Date on which keel was laid or ship was at a similar stage of construction or, where applicable, date on which work for a conversion or an alteration or modification of a major character was commenced 16/01/2013

THIS IS TO CERTIFY :

- 1 That the ship has been surveyed in accordance with the requirements of regulation I/9 of the Convention.
- 2 That the survey showed that :
 - 2.1 the ship complied with the requirements of the Convention as regards radio installations;
 - 2.2 the functioning of the radio installations used in life-saving appliances complied with the requirements of the Convention;
- 3 That an Exemption Certificate has not been issued.

This certificate is valid until* **10 September 2014**

Completion date of the survey on which this certificate is based : 11/04/2014

Issued at Guangzhou, P.R.China, on the 11 April 2014



BUREAU VERITAS

Simon Yin
By Order of the Secretary



*Short term maximum validity 2 months - Interim maximum validity 5 months.

This certificate is complemented by Record No. GGZ0/UXX/20140228155659



**RECORD OF EQUIPMENT OF RADIO FACILITIES FOR
COMPLIANCE WITH THE INTERNATIONAL CONVENTION
FOR THE SAFETY OF LIFE AT SEA , 1974, in accordance with
Assembly resolution A.883(21) relating to the global implementation
of the harmonized system of survey and certification**

No GGZ0/UXX/20140228155659

This Record shall be permanently attached to the Cargo Ship Safety Radio Certificate

1. Particulars of ship

Name of Ship : RADHWA 24 BV Register : 22831T Distinctive number or letters : H Z J A Minimum number of persons with required qualifications to operate the radio installations : Two (2)
--

2. Details of radio facilities

Item	Actual provision
1 Primary systems	
1.1 VHF radio installation :	
1.1.1 DSC encoder	Fitted
1.1.2 DSC watch receiver	Fitted
1.1.3 Radiotelephony	Fitted
1.2 MF radio installation :	
1.2.1 DSC encoder	-
1.2.2 DSC watch receiver	-
1.2.3 Radiotelephony	-
1.3 MF/HF radio installation :	
1.3.1 DSC encoder	Fitted
1.3.2 DSC watch receiver	Fitted
1.3.3 Radiotelephony	Fitted
1.3.4 Direct-printing telegraphy	Fitted
1.4 INMARSAT ship earth station	-
2 Secondary means of alerting	Fitted
3 Facilities for reception of maritime safety information	
3.1 NAVTEX receiver	Fitted
3.2 EGC receiver	Fitted
3.3 HF direct-printing radiotelegraph receiver	-
4 Satellite EPIRB	
4.1 COSPAS-SARSAT	Fitted
4.2 INMARSAT	-
5 VHF EPIRB	-
6 Ship's search and rescue locating device	
6.1 Radar search and rescue transponder (SART)	Fitted
6.2 AIS search and rescue transmitter (AIS-SART)	-



RECORD FORM R No : GGZ0/UXX/20140228155659

NAME OF SHIP : RADHWA 24

BV REGISTER : 22831T

3. Methods used to ensure availability of radio facilities (regulations IV/15.6 and 15.7)

- 3.1 Duplication of equipment : Yes (VHF+INMARSAT-C)
3.2 Shore-based maintenance : Yes
3.3 At-sea maintenance capability : No

THIS IS TO CERTIFY that this Record is correct in all respects.

Issued at Guangzhou, P.R.China, on the 11 April 2014

BUREAU VERITAS



P.P. Yin
Simon Yin

By Order of the Secretary

STATEMENT OF COMPLIANCE FOR ANTI-FOULING SYSTEM

No GGZ0/UXX/20140305142856

(This Statement of Compliance shall be supplemented by a record of Anti-Fouling Systems)

Issued under the provisions of Regulation (EC) No 782/2003
of the European Parliament and the Council of 14 April 2003
on the prohibition of organotin compounds on ships.

by BUREAU VERITAS

When a Statement has been previously issued, this Statement replaces the Statement dated

Name of Ship	Distinctive Number or Letters	Port of Registry	Gross Tonnage	IMO Number
BV No : 22831T				
RADHWA 24	H Z J A	JEDDAH	486	9688037

- An anti-fouling system controlled under Regulation (EC) No 782/2003 has not been applied during or after construction of the ship.
- An anti-fouling system controlled under Regulation (EC) No 782/2003 has been applied on this ship previously, but has been removed by on
- An anti-fouling system controlled under Regulation (EC) No 782/2003 has been applied on this ship previously, but has been covered with a sealer applied by on
- An anti-fouling system controlled under Regulation (EC) No 782/2003 was applied on this ship prior to 1 January 2003, but must be removed or covered with a sealer coat prior to 1 January 2008.

THIS IS TO CERTIFY THAT :

- the ship has been surveyed in accordance with Regulation (EC) No 782/2003 of the European Parliament and the Council of 14 April 2003 on the prohibition of organotin compounds on ships; and
- the survey shows that the anti-fouling system on the ship complies with the applicable requirements of Regulation (EC) No 782/2003 of the European Parliament and the Council of 14 April 2003 on the prohibition of organotin compounds on ships.

Date of completion of the survey on which this Statement is issued 11/04/2014

Issued at Guangzhou, P.R.China, on the 11 April 2014



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BUREAU VERITAS

J. P. Yin

Simon Yin
By Order of the Secretary



RECORD OF ANTI-FOULING SYSTEMS

No GGZ0/UXX/20140305142925

This Record shall be permanently attached to the Statement of Compliance for Anti-Fouling System.

Name of Ship	Distinctive Number or Letters	Port of Registry	Gross Tonnage	IMO Number
BV No : 22831T				
RADHWA 24	H Z J A	JEDDAH	486	9688037

Details of anti-fouling system(s) applied

Type(s) of anti-fouling system(s) used : TBT free, self polishing antifouling

Date(s) of application of anti-fouling system(s) : 07/06/2013

Name(s) of company(ies) and facility(ies)/location(s) where applied : Guangdong Yuexin Ocean Engineering Co., Ltd

Name(s) of anti-fouling system manufacturer(s) : International Paint of Shanghai Co., Ltd.

Name(s) and colour(s) of anti-fouling system(s) : Interswift 6800HS / BMA684 - Red

Active ingredient(s) and their Chemical Abstract Services Registry Number(s) (CAS number(s)) :

Cuprous Oxide (CAS Number 1317-39-1);

Cuprous Pyrithione (CAS Number 14915-37-8);

Zinc Ethylene bis-dithiocarbamate (CAS Number 12122-67-7)

Type(s) of sealer coat, if applicable : NA

Name(s) and colour(s) of sealer coat applied, if applicable : NA

Date of application of sealer coat : NA

THIS IS TO CERTIFY that this Record is correct in all respects.

Issued at Guangzhou, P.R.China, on the 11 April 2014



BUREAU VERITAS

Simon Yin
By Order of the Secretary



SHORT TERM* (see page 2)

No GGZ0/UXX/20140225164133

INTERIM

INTERNATIONAL OIL POLLUTION PREVENTION CERTIFICATE

Issued under the provisions of the International Convention for the Prevention of Pollution from Ships,
1973 as modified by the Protocol of 1978 relating thereto, as amended,
(hereinafter referred to as "the Convention")
under the authority of the Government of

THE KINGDOM OF SAUDI ARABIA

by BUREAU VERITAS

(Note : This Certificate shall be supplemented by a Record of Construction and Equipment.)

Name of Ship	Distinctive Number or Letters	Port of Registry	Gross Tonnage	IMO Number
BV No : 22831T				
RADHWA 24	H Z J A	JEDDAH	486	9688037

Deadweight of ship (metric tons) (for oil tankers) :-

Type of ship :

Oil tanker

Ship other than oil tanker with cargo tanks coming under Regulation 2(2) of Annex I of the Convention

Ship other than any of the above

THIS IS TO CERTIFY

1. That the ship has been surveyed in accordance with Regulation 6 of Annex I of the Convention; and
2. That the survey shows that the structure, equipment systems, fittings, arrangement and material of the ship and the condition thereof are in all respects satisfactory and that the ship complies with the applicable requirements of Annex I of the Convention.

This Certificate is valid until **10 September 2014**

Completion date of the survey on which this certificate is based : 11/04/2014

Issued at Guangzhou, P.R.China, on the 11 April 2014

Valid only when the Supplement No. GGZ0/UXX/20140225164241 is available for inspection.



**BUREAU
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*Short term maximum validity 2 months.
Interim maximum validity 5 months.

BUREAU VERITAS

Simon Yin
By Order of the Secretary

P.P.



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**SUPPLEMENT TO THE
INTERNATIONAL OIL POLLUTION PREVENTION CERTIFICATE
(IOPP CERTIFICATE)**

RECORD OF CONSTRUCTION AND EQUIPMENT FOR SHIPS OTHER THAN OIL TANKERS

In respect of the provisions of Annex I of the International Convention for the Prevention of Pollution from Ships, 1973, as modified by the Protocol of 1978 relating thereto (hereinafter referred to as "the Convention").

Notes :

1. This form is to be used for the third type of ships as categorized in the IOPP Certificate, i.e. "ships other than any of the above". For oil tankers and ships other than oil tankers with cargo tanks coming under regulation 2.2 of Annex I of the Convention, Form B shall be used.
2. This Record shall be permanently attached to the IOPP Certificate. The IOPP Certificate shall be available on board the ship at all times.
3. If the language of the original Record is neither English nor French, nor Spanish, the text shall include a translation into one of these languages.
4. Entries in boxes shall be made by inserting either a cross (X) for the answers "yes" and "applicable" or a dash (-) for the answers "no" and "not applicable" as appropriate.
5. Regulations mentioned in this Record refer to regulations of Annex I of the Convention and resolutions refer to those adopted by the International Maritime Organization.

1. PARTICULARS OF SHIP

1.1. Name of ship : **RADHWA 24**

BV Register : **22831T**

1.2. Distinctive number or letters : **HZ J A**

1.3. Port of Registry : **JEDDAH**

1.4. Gross tonnage : **486**



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FORM A No : GGZ0/UXX/20140225164241

NAME OF SHIP : RADHWA 24

BV REGISTER : 22831T

1.5. Date of build :

1.5.1. Date of building contract 21/03/2012

1.5.2. Date on which keel was laid or ship was at a similar stage of construction 16/01/2013

1.5.3. Date of delivery 11/04/2014

1.6. Major conversion (if applicable) :

1.6.1. Date of conversion contract -

1.6.2. Date on which conversion was commenced -

1.6.3. Date of completion of conversion -

[-] 1.7. The ship has been accepted by the Administration as a "ship delivered on or before 31 December 1979" under regulation 1.28.1 due to unforeseen delay in delivery

2. EQUIPMENT FOR THE CONTROL OF OIL DISCHARGE FROM MACHINERY SPACES BILGES AND OIL FUEL TANKS (regulations 16 and 14)

2.1. Carriage of ballast water in oil fuel tanks :

[-] 2.1.1. The ship may under normal conditions carry ballast water in oil fuel tanks

2.2. Type of oil filtering equipment fitted :

[] 2.2.1. Oil filtering (15 ppm) equipment (regulation 14.6)

[-] 2.2.2. Oil filtering (15 ppm) equipment with alarm and automatic stopping device (regulation 14.7)

2.3. Approval standards* :

2.3.1. The separating / filtering equipment :

[-] 1. has been approved in accordance with resolution A.393(X);

[-] 2. has been approved in accordance with resolution MEPC.60(33);

[x] 3. has been approved in accordance with resolution MEPC.107(49);

[-] 4. has been approved in accordance with resolution A.233(VII);

[-] 5. has been approved in accordance with national standards not based upon resolution A.393(X) or A.233(VII);

[-] 6. has not been approved.

[-] 2.3.2. The process unit has been approved in accordance with resolution A.444(XI)

2.3.3. The oil content meter :

[-] 1. has been approved in accordance with resolution A.393(X);

[-] 2. has been approved in accordance with resolution MEPC.60(33);

[-] 3. has been approved in accordance with resolution MEPC.107(49).



* Refer to recommendation on international performance and test specifications of oily-water separating equipment and oil content meters adopted by the Organization on 14 November 1977 by resolution A.393(X), which superseded resolution A.223(VII). Further reference is made to the Guidelines and specifications for pollution prevention equipment for machinery spaces bilges adopted by the Marine Environment Protection Committee of the Organization by resolution MEPC.60(33), which, effective on July 1993, superseded resolutions A.393(X) and A.444(XI); and to the revised Guidelines and specifications for pollution prevention equipment for machinery spaces of ships adopted by the Marine Environment Protection Committee of the Organization by resolution MEPC.107(49) which, effective on 1 January 2005, superseded resolutions MEPC.60(33), A.393(X) and A.444(XI).

FORM A No : GGZ0/UXX/20140225164241

NAME OF SHIP : RADHWA 24

BV REGISTER : 22831T

2.4. Maximum throughput of the system is 0.5 m3/h

2.5. Waiver of regulation 14

2.5.1. The requirements of regulation 14.1 and 14.2 are waived in respect of the ship in accordance with regulation 14.5.

1. The ship is engaged exclusively on voyages within special area(s):

2. The ship is certified under the International Code of Safety for High-Speed Craft and engaged on a scheduled service with a turn-around time not exceeding 24 hours

2.5.2. The ship is fitted with holding tank(s) for the total retention on board of all oily bilge water as follows :

Tank Identification	Tank	Location	Volume (m3)
	Frames (from) - (to)	Lateral position	
Total Volume (m3):			

2A.1 The ship is required to be constructed according to regulation 12A and complies with the requirements of:

paragraphs 6 and either 7 or 8 (double hull construction)

paragraph 11 (accidental oil fuel outflow performance).

2A.2

The ship is not required to comply with the requirements of regulation 12A.

3. MEANS FOR RETENTION AND DISPOSAL OF OIL RESIDUES (SLUDGE) (regulation 12) AND OILY BILGE WATER HOLDING TANK(S)* (* Oily bilge water holding tank(s) are not required by the Convention, if such tank(s) are provided they shall be listed in Table 3.3)

3.1. The ship is provided with oil residue (sludge) tanks for retention of oil residues (sludge) on board as follows :

Tank Identification	Tank Location		Volume (m3)
	Frames (from) - (to)	Lateral position	
DB SLUDGE TK (S)	Fr.33~Fr.39	STBD of E/R	11.40
Total Volume (m3):			11.40



FORM A No : GGZ0/UXX/20140225164241

NAME OF SHIP : RADHWA 24

BV REGISTER : 22831T

6. EXEMPTION

[-] 6.1. Exemptions have been granted by the Administration from the requirements of Chapter 3 of Annex I of the Convention in accordance with regulation 3.1 on those items listed under paragraph(s) of this Record.

7. EQUIVALENTS (regulation 5)

[-] 7.1. Equivalents have been approved by the Administration for certain requirements of Annex I listed under paragraph(s) of this Record.

THIS IS TO CERTIFY that this Record is correct in all respects.

Issued at Guangzhou, P.R.China, on the 11 April 2014

BUREAU VERITAS



S. P.
Simon Yin
By Order of the Secretary

**INTERNATIONAL AIR POLLUTION
PREVENTION CERTIFICATE**

Issued under the provisions of the Protocol of 1997, as amended by resolution MEPC.176(58) in 2008, to amend the International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978 related thereto, (hereinafter referred to as "the Convention") under the authority of the Government of

THE KINGDOM OF SAUDI ARABIA

by BUREAU VERITAS

Name of Ship	Distinctive Number or Letters	Port of Registry	Gross Tonnage
BV No : 22831T			
RADHWA 24	H Z J A	JEDDAH	486

IMO number : 9688037

THIS IS TO CERTIFY

1. That the ship has been surveyed in accordance with Regulation 5 of Annex VI of the Convention; and
2. That the survey shows that the equipment, systems, fittings, arrangement and material fully comply with the applicable requirements of Annex VI of the Convention.

Completion date of the survey on which this Certificate is based : 10/09/2014

This Certificate is valid until **11 April 2014**

Issued at Guangzhou, P.R.China, on the 11 April 2014

Valid only when the Supplement No. GGZ0/UXX/20140225164220 is available for inspection.



**BUREAU
VERITAS**

**Short term maximum validity 2 months.
Interim maximum validity 5 months.*

BUREAU VERITAS

Simon Yin
By Order of the Secretary



**SUPPLEMENT TO THE
INTERNATIONAL AIR POLLUTION PREVENTION CERTIFICATE
(IAPP CERTIFICATE)**

RECORD OF CONSTRUCTION AND EQUIPMENT

Notes :

1. This Record shall be permanently attached to the IAPP Certificate. The IAPP Certificate shall be available on board the ship at all times.
2. The Record shall be at least in English, French or Spanish. If an official language of the issuing country is also used, this shall prevail in case of a dispute or discrepancy.
3. Entries in boxes shall be made by inserting either a cross (X) for the answers "yes" and "applicable" or a dash (-) for the answers "no" and "not applicable" as appropriate.
4. Unless otherwise stated, regulations mentioned in this Record refer to regulations of Annex VI of the Convention and resolutions or circulars refer to those adopted by the International Maritime Organization.

1. PARTICULARS OF SHIP

1.1. Name of ship: **RADHWA 24**

BV Register: **22831T**

1.2. IMO Number: **9688037**

1.3. Date on which keel was laid or ship was at a similar stage of construction: **16/01/2013**

1.4. Length (metres)*: -



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** completed only in respect of ships constructed on or after 1 January 2016, which are specially designed, and used solely for recreational purposes and to which, in accordance with regulation 13.5.2.1, the NOx emission limit as given by regulation 13.5.1.1 will not apply.*

SUPPLEMENT TO IAPP CERTIFICATE No : GGZ0/UXX/20140225164220

NAME OF SHIP : RADHWA 24

BV REGISTER : 22831T

2. CONTROL OF EMISSIONS FROM SHIPS

2.1 Ozone-depleting substances (regulation 12)

[-] 2.1.1 The following fire-extinguishing systems, other systems and equipment containing ozone depleting substances, other than hydro-chlorofluorocarbons, installed before 19 May 2005 may continue in service

System or equipment	Location on board	Substance

[-] 2.1.2 The following systems containing hydro-chlorofluorocarbons (HCFCs) installed before 1 January 2020 may continue in service

System or equipment	Location on board	Substance



SUPPLEMENT TO IAPP CERTIFICATE No : GGZ0/UXX/20140225164220

NAME OF SHIP : RADHWA 24

BV REGISTER : 22831T

2.2 Nitrogen oxides (NOx) (regulation 13)

[x] 2.2.1 The following marine diesel engines installed on this ship comply with the applicable emission limit of regulation 13 in accordance with the revised NOx Technical Code 2008.

		Engine #1	Engine #2	Engine #3
Manufacturer and model		Anglo Belgian Corporation 12 DZC	Anglo Belgian Corporation 12 DZC	CUMMINS LIMITED 6CTA8.3-D(M)
Serial number		13689	13690	22066810
Use		Main Engine	Main Engine	Aux. Engine
Power output (kW)		2143	2143	201
Rated speed (RPM)		1000	1000	1800
Date of installation (dd/mm/yy)		16/01/2013	16/01/2013	16/01/2013
Date of major conversion (dd/mm/yy)	According to Reg. 13.2.2			
	According to Reg. 13.2.3			
Exempted by Reg. 13.1.1.2		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tier I Reg. 13.3		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tier II Reg. 13.4		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Tier II Reg. 13.2.2 or 13.5.2		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tier III Reg. 13.5.1.1		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Approved Method exists		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Approved Method not commercially available		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Approved Method installed		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

		Engine #4	Engine #5	Engine #6
Manufacturer and model		CUMMINS LIMITED 6CTA8.3-D(M)		
Serial number		22066824		
Use		Aux. Engine		
Power output (kW)		201		
Rated speed (RPM)		1800		
Date of installation (dd/mm/yy)		16/01/2013		
Date of major conversion (dd/mm/yy)	According to Reg. 13.2.2			
	According to Reg. 13.2.3			
Exempted by Reg. 13.1.1.2		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tier I Reg. 13.3		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tier II Reg. 13.4		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tier II Reg. 13.2.2 or 13.5.2		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tier III Reg. 13.5.1.1		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Approved Method exists		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Approved Method not commercially available		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Approved Method installed		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



SUPPLEMENT TO IAPP CERTIFICATE No: GGZ0/UXX/20140225164220

NAME OF SHIP : RADHWA 24

BV REGISTER : 22831T

2.3 Sulphur oxides (SOx) and particulate matter (regulation 14)

2.3.1 When the ship operates outside of an Emission Control Area specified in regulation 14.3, the ship uses:

.1 fuel oil with a sulphur content as documented by bunker delivery notes that does not exceed the limit value of:

4,50% m/m (not applicable on or after 1 January 2012); or

3,50% m/m (not applicable on or after 1 January 2020); or

0,50% m/m and/or

.2 an equivalent arrangement approved in accordance with regulation 4.1 as listed in 2.6 that is at least as effective in term of SOx emission reductions as compared to using a fuel oil with a sulphur content limit value of:

4,50% m/m (not applicable on or after 1 January 2012); or

3,50% m/m (not applicable on or after 1 January 2020); or

0,50% m/m

2.3.2 When the ship operates inside an Emission Control Area specified in regulation 14.3, the ship uses:

.1 fuel oil with a sulphur content as documented by bunker delivery notes that does not exceed the limit value of:

1,00% m/m (not applicable on or after 1 January 2015); or

0,10% m/m and/or

.2 an equivalent arrangement approved in accordance with regulation 4.1 as listed in 2.6 that is at least as effective in terms of SOx emission reductions as compared to using a fuel oil with a sulphur content limit value of:

1,00% m/m (not applicable on or after 1 January 2015); or

0,10% m/m

2.4 Volatile organic compounds (VOCs) (regulation 15)

2.4.1 The tanker has a vapour collection system installed and approved in accordance with MSC/Circ.585

2.4.2.1 For a tanker carrying crude oil, there is an approved VOC Management Plan.

2.4.2.2 VOC Management Plan approval reference:



2.5 Shipboard incineration (regulation 16):

The ship has an incinerator:

.1 installed on or after 1 January 2000 which complies with resolution MEPC.76(40) as amended

.2 installed before 1 January 2000 which complies with

SUPPLEMENT TO IAPP CERTIFICATE No: GGZ0/UXX/20140225164220

NAME OF SHIP : RADHWA 24

BV REGISTER : 22831T

2.6 Equivalents (regulation 4):

The ship has been allowed to use the following fitting, material, appliance or apparatus to be fitted in a ship or other procedures, alternative fuel oils, or compliance methods used as an alternative to that required by this Annex:

System or equipment	Equivalent used	Approval reference
NA		

THIS IS TO CERTIFY that this Record is correct in all respects.

Issued at Guangzhou, P.R.China, on the 11 April 2014

BUREAU VERITAS



Simon Yin
By Order of the Secretary

STATEMENT OF COMPLIANCE WITH THE REQUIREMENTS FOR THE PREVENTION OF POLLUTION BY GARBAGE

No GGZ0/UXX/20140225164234

Issued under the requirements of the Annex V of the International Convention for the
Prevention of Pollution from Ships, 1973, as amended

by BUREAU VERITAS

Name of Ship BV No : 22831T	Distinctive Number or Letters	Port of Registry	Gross Tonnage	Number of persons which the ship is certified to carry
RADHWA 24	H Z J A	JEDDAH IMO 9688037	486	9

THIS IS TO CERTIFY

1. That the ship is equipped with *
 an incinerator a garbage treatment plant garbage collection facilities

(a) Incinerator:

- No 1 Type :
 Name of manufacturer:
 According to the Certificate issued by :
 Incinerator ensures effective incineration of* : garbage sewage sludge oil sludge
- No 2 Type :
 Name of manufacturer:
 According to the Certificate issued by :
 Incinerator ensures effective incineration of* : garbage sewage sludge oil sludge
- No 3 Type :
 Name of manufacturer:
 According to the Certificate issued by :
 Incinerator ensures effective incineration of* : garbage sewage sludge oil sludge

(b) Garbage treatment plant:

- No 1 Type :
 Name of manufacturer:
 According to the Certificate issued by :
 The garbage treatment plant ensures* : grinding of garbage pressing of garbage
- No 2 Type :
 Name of manufacturer:
 According to the Certificate issued by :
 The garbage treatment plant ensures* : grinding of garbage pressing of garbage
- No 3 Type :
 Name of manufacturer:
 According to the Certificate issued by :
 The garbage treatment plant ensures* : grinding of garbage pressing of garbage

* Cross as appropriate



STATEMENT OF COMPLIANCE

WITH THE PREVENTION OF POLLUTION BY GARBAGE No : GGZ0/UXX/20140225164234

NAME OF SHIP : RADHWA 24

BV REGISTER : 22831T

(c) Garbage storage facilities:

Total capacity 1 m3

Location : Main deck

(d) Placards, garbage management plan*: Yes No

(e) Garbage Record Book*: Yes No

THIS IS TO CERTIFY:

1. That the ship has been surveyed in accordance with the requirements of Annex V of the International Convention for the Prevention of Pollution from Ships, 1973, as amended, and the survey showed that the condition of equipment, plants and facilities was in all respects satisfactory and that the ship complies with the appropriate requirements of the Rules at the date of the survey.

This Statement of Compliance is valid until**: **10 September 2014**

Completion date of the survey on which this certificate is based : 11/04/2014

Note: Any unapproved alteration of the equipment invalidates this Statement of Compliance.

This Statement of Compliance does in no respect prejudice the Authorities' decision regarding interpretation of the statutory instrument.

Issued at Guangzhou, P.R.China, on the 11 April 2014



* Cross as appropriate

** Not exceeding the validity of the Classification Certificate

BUREAU VERITAS



P. P. Yin
Simon Yin

By Order of the Secretary

INTERNATIONAL SEWAGE POLLUTION PREVENTION CERTIFICATE

Issued under the provisions of the International Convention for the Prevention of Pollution from Ships, 1973, as modified by the Protocol of 1978 relating thereto, and as amended by resolution MEPC.115(51) (hereinafter referred to as "the Convention") under the authority of the Government of

THE KINGDOM OF SAUDI ARABIA

by BUREAU VERITAS

Name of Ship BV No : 22831T	IMO	Distinctive Number or Letters	Port of Registry	Gross Tonnage	Number of persons which the ship is certified to carry
RADHWA 24	9688037	H Z J A	JEDDAH	486	9

Type of ship* New Existing

Type of ship for the application of regulation 11.3*:

- Passenger ship: New Existing
 Ship other than a passenger ship

Date on which keel was laid or ship was at a similar stage of construction or, where applicable, date on which a conversion or an alteration or modification of a major character was commenced 16/01/2013

THIS IS TO CERTIFY :

- 1 That the ship is equipped with a* sewage treatment plant
 comminuter
 holding tank

and a discharge pipeline in compliance with regulations 9 and 10 of Annex IV of the Convention as follows* :

1.1 Description of the sewage treatment plant

Type of sewage treatment plants: SHB-15

Name of manufacturer: TAIKO KIKAI INDUSTRIES CO., LTD.

The sewage treatment plant is certified by the Administration to meet the effluent standards as provided for in resolution MEPC.2(VI).

The sewage treatment plant is certified by the Administration to meet the effluent standards as provided for in resolution MEPC.159(55).

The sewage treatment plant is certified by the Administration to meet the effluent standards as provided for in resolution MEPC.227(64).

1.2 Description of the comminuter

Type of comminuter:

Name of manufacturer:

Standard of sewage after disinfection:

1.3 Description of the holding tank equipment

Total capacity of the holding tank : 11.4 m³

Location : Fr.33 ~Fr39, E/R D.B TK at Port side



**BUREAU
VERITAS**

* Cross as appropriate
** Short term maximum validity 2 months.
Interim maximum validity 5 months.



PROVISIONAL ISPP CERTIFICATE No : GGZ0/UXX/20140225164142

NAME OF SHIP : RADHWA 24

BV REGISTER : 22831T

- 1.4 A pipeline for the discharge of sewage to a reception facility, fitted with a standard connection.
- 2 That the ship has been surveyed in accordance with regulation 4 of Annex IV of the Convention.
- 3 That the survey shows that the structure, equipment, systems, fittings, arrangements and materials of the ship and the condition thereof in all respects satisfactory and that the ship complies with the applicable requirements of Annex IV of the Convention.

This Certificate is valid until **10 September 2014**

Issued at Guangzhou, P.R.China, on the 11 April 2014

Completion date of the survey on which this Certificate is based : 11/04/2014

BUREAU VERITAS

Simon Yin *P.P.*
By Order of the Secretary



Issued under the provisions of the
INTERNATIONAL CONVENTION ON TONNAGE MEASUREMENT OF SHIPS, 1969
under the authority of the government of the

THE KINGDOM OF SAUDI ARABIA

For which the Convention came into force on 18 July 1982

by **BUREAU VERITAS**

Name of Ship	Distinctive Number or Letters	Port of registry	Date*
RADHWA 24 BV Register: 22831T IMO n° : 9688037	H Z J A	JEDDAH	2013

* Date on which keel was laid or the ship was at a similar stage of construction, (Article 2(6)), or date on which the ship underwent alterations or modifications of a major character, (Article 3(2) (b)), as appropriate.

MAIN DIMENSIONS

Length (Article 2(8))	Breadth (Regulation 2(3))	Moulded Depth amidships to Upper Deck (Regulation 2(2))
32.05 m	11.50 m	5.00 m

THE TONNAGES OF THE SHIP ARE :

GROSS TONNAGE	486
NET TONNAGE	145

THIS IS TO CERTIFY that the tonnage of this ship have been determined in accordance with the provisions of the International Convention on Tonnage Measurement of Ships 1969.

Issued at SHANGHAI P.R.CHINA on the 24th January 2014

The undersigned declares that Bureau Veritas is duly authorized by the said Government to issue this certificate.

BUREAU VERITAS



M. Chen
M CHEN
By order of the Secretary

SPACES INCLUDED IN TONNAGE

GROSS TONNAGE			NET TONNAGE		
Name of Space	Location	Length (m)	Name of Space	Location	Length (m)
UNDERDECK (INCL. RAISED DK)					
1 ST TIER 'ON RAISED DK' DECKHOUSE	FR48-25	11.50			
2 ND TIER 'ON BOAT DK' DECKHOUSE	FR44-31	6.50			
FUNNEL	FR31-25	3.00			
3 RD TIER 'ON BRIDGE DK' DECKHOUSE	FR41-27	7.00			
EXCLUDED SPACES (Regulation 2(5))			NUMBER OF PASSENGERS (Regulation 4(1)) /		
			Number of passengers in cabins with no more than 8 berths: /		
			Number of other passengers : /		
An asterisk(*) should be added of those spaces listed above which comprise both enclosed & excluded spaces			MOULDED DRAUGHT: 3.76 m (Regulation 4(2))		
Date and place of last original measurement:		24th January 2014	SHANGHAI P.R.CHINA		
Date and place of last previous remeasurement:					
REMARKS:					



**BUREAU
VERITAS**

STATIC BOLLARD PULL CERTIFICATE
No GGZ0/UXX/20140225164048

Name: RADHWA 24 **BV Reg.:** 22831T
Builder: GUANGDONG YUEXIN OCEAN ENGINEERING CO., LTD **Year of Build:** 2014
Owner: RED SEA MARINE SERVICES CO. LTD

CLASSIFICATION

LOA: 34.00m **B:** 11.50m
LPP: 32.00m **C:** 5,00m **T:** 4.90m

PROPULSION

Nb: Two(2) **Type:** 12VDZC-1000-134-A **Builder:** Anglo Belgain Corporation N.V.
Total Power: 2 x2143 kW
Propeller(s): Two(2)
Free run speed: 13.50 knots **Bunkers:** -
Estimated range ECONOMICAL **Days*:** -
:(economical)

SUSTAINED BOLLARD PULL AHEAD 67.70 TONS (AHEAD 663.50 kN)
MAXIMUM STATIC BOLLARD PULL AHEAD 68.60 TONS (AHEAD 672.00 kN)

(From tests results, see attached annex)

TOWING EQUIPMENT

(Traction equipment if Fishing Vessel)

- Main Tow Line(s) L = - m **Breaking Load:** -
Characteristics (Composition, Diameter):
- Spare Tow Line(s) L = NA m **Breaking Load:** -
Characteristics (Composition, Diameter):
- Winch(es): - **Rating Pull:** - **Brake:** -
- Towing Pennants
L = - **BL = -** **Characteristics:** -
L = - **BL = -** **Characteristics:** -
- Shackles : NA

IN WITNESS WHEREOF THE PRESENT CERTIFICATE HAS BEEN ISSUED AND SIGNED
TO SERVE AS IT MIGHT BE REQUIRED

* As declared by the Owner

A Guangzhou, P.R.China , le 11 April 2014

Signature: Terry Xu



La dernière édition des Règlements de la Division Marine & Offshore du Bureau Veritas ainsi que des Conditions Générales sont applicables.
The latest published Rules of the Bureau Veritas Marine & Offshore Division and the General Conditions are applicable.

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ANNEX: BOLLARD PULL TEST RESULTS No GGZ0/UXX/20140225164048

TUG :

BV Register No :

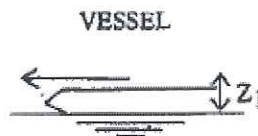
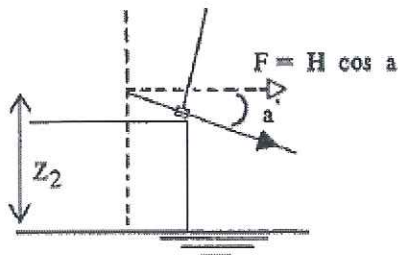
Owner : RED SEA MARINE SERVICES CO. LTD

L = 34.00m	B = 11.50m	C = 5.00m	T = 4.90m	
Test Location:	GUANGDONG YUEXIN OCEAN ENGINEERING CO., LTD			Water depth P = 18.30m
Date:	14/12/2013	Meteorological	Fine	
		Conditions:		
Draught Forward:	4.39m	Draught Aft.:	4.88	Fuel: -
Trim:	-			Ballast: Full

			Test 1	Test 2	Test3
Duration			5minutes		
RPM	Eng. 1		1006		
	Eng. 2		1003		
	Eng. 3.		-		
RPM and Pitch*	Prop. 1		308		
	Prop. 2		307		
	Prop. 3		-		
Tension (kN)	H max.		-		
	H min.		-		
	H average 5 minutes		663.50		
	H average 30 sec.		672.00		
Angle	DEG	a	-		
Towing line length	M	$Z_2 - Z_1$	0		
	M	l	200		
Sustained B. Pull	kN	F average 5 minutes	663.50		
Maximum static B. Pull	kN	F max. average 30 sec.	672.00		
% of max. adm. RPM			-		
Fuel rack setting			-		

(* or equivalent if not classic propeller)

Engaged auxiliaries: -
 Strain cell - Type: ZDY-16/150T
 Towing line type: Φ 54 mm steel wire
 Continuous recording: 5 minutes
 Comment about rudder(s) or nozzle(s) orientation during tests: 0





**BUREAU
VERITAS**

STATIC BOLLARD PULL CERTIFICATE

No GGZ0/UXX/20140411002515

Name:	RADHWA 24	BV Reg.:	22831T
Builder:	GUANGDONG YUEXIN OCEAN ENGINEERING CO., LTD	Year of Build:	
Owner:	RED SEA MARINE SERVICES CO. LTD		

CLASSIFICATION

LOA: 34.00m	B: 11.50m		
LPP: 32.00m	C: 5.00m	T: 4.90m	

PROPULSION

Nb:	Two(2)	Type: 12VDZC-1000-134-A	Builder:	Anglo Belgain Corporation N.V.
Total Power:	2 x2143 kW			
Propeller(s):	Two(2)			
Free run speed:	13.50 knots		Bunkers:	-
Estimated range :(economical)	ECONOMICAL		Days*:	-

SUSTAINED BOLLARD PULL	ASTERN 65.94 TONS (ASTERN 646.40 kN)
MAXIMUM STATIC BOLLARD PULL	ASTERN 67.50 TONS (ASTERN 662.00 kN)

(From tests results, see attached annex)

TOWING EQUIPMENT

(Traction equipment if Fishing Vessel)

- Main Tow Line(s)	L = - m	Breaking Load: -
Characteristics (Composition, Diameter):		
- Spare Tow Line(s)	L = NA m	Breaking Load: -
Characteristics (Composition, Diameter): -		
- Winch(es): -	Rating Pull: -	Brake: -
- Towing Pennants		
L = -	BL = -	Characteristics: -
L = -	BL = -	Characteristics: -
- Shackles : NA		

IN WITNESS WHEREOF THE PRESENT CERTIFICATE HAS BEEN ISSUED AND SIGNED
TO SERVE AS IT MIGHT BE REQUIRED

* As declared by the Owner

A Guangzhou, P.R.China , le 11 April 2014

Signature: Terry Xu



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ANNEX: BOLLARD PULL TEST RESULTS No GGZ0/UXX/20140411002515

TUG :

BV Register No :

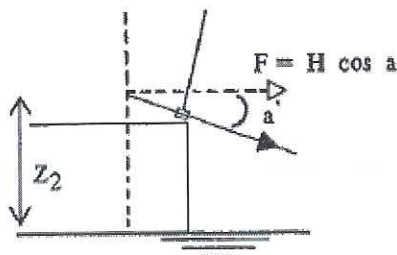
Owner : RED SEA MARINE SERVICES CO. LTD

L = 34.00m B = 11.50m C = 5.00m T = 4.90m
 Test Location: GUANGDONG YUEXIN OCEAN ENGINEERING CO., LTD Water depth P = 18.30m
 Date: 14/12/2014 Meteorological Fine
 Conditions:
 Draught Forward: 4.39m Draught Aft.: 4.88 Fuel: - Ballast: Full
 Trim: -

			Test 1	Test 2	Test3
Duration			5minutes		
RPM	Eng. 1		981		
	Eng. 2		1003		
	Eng. 3.		-		
RPM and Pitch*	Prop. 1		301		
	Prop. 2		307		
	Prop. 3		-		
Tension (kN)	H max.		-		
	H min.		-		
	H average 5 minutes		646.40		
	H average 30 sec.		662.00		
Angle	DEG	a	-		
Towing line length	M	$Z_2 - Z_1$	0		
	M	l	200		
Sustained B. Pull	kN	F average 5 minutes	646.40		
Maximum static B. Pull	kN	F max. average 30 sec.	662.00		
% of max. adm. RPM			-		
Fuel rack setting			-		

(* or equivalent if not classic propeller)

Engaged auxiliaries: -
 Strain cell - Type: ZDY-16/150T
 Towing line type: Φ 54 mm steel wire
 Continuous recording: 5 minutes
 Comment about rudder(s) or nozzle(s) orientation during tests: -



Certificate and Documents for YX3166

Item	Content	Remark
1	Marine Division General Conditions	
2	Certificate of Classification	
3	International Load Line Certificate	
4	Freeboard Assignment & S.F.B.68A	
5	Record of Conditions of Assignment	
6	Cargo Ship Safety Radio Certificate & Form R	
7	Statement of Compliance for Anti-fouling System	
8	Record of Anti-fouling systems	
9	International Oil Pollution Prevention Certificate & Form A	
10	International Air Pollution Prevention Certificate & Supplement	
11	Statement of Compliance with the Requirements for the Prevention of Pollution By Garbage	
12	International Sewage Pollution Prevention Certificate	
13	Record of Approved GMDSS Radio Installation	
14	Record of Construction and Equipment for Prevention of Oil Pollution	
15	AIS Installation Check List	
16	Checklist for Survey of Ship Security Alert System	
17	406 MHz EPIRB Annual Test Report	
18	International Tonnage Certificate (1969)	
19	Record of Equipment Related to Ozone Depleting Substances and Nitrogene Oxides (NOx)	
20	Static Bollard Pull Certificate (Full ahead and Astern)	