

**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: **ZHONG XIANG**

BV Register: **26446X**

1.2. IMO Number: **8814299**

1.3. Date on which keel was laid or ship was at a similar stage of construction: **16 October 1990**

1.4. Length (metres)\*:



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*\* completed only in respect of ships constructed on or after 1 January 2016, that are specially designed, and used solely for recreational purposes and to which, in accordance with regulation 13.5.2.1 or regulation 13.5.2.3, the NOx emission limit as given by regulation 13.5.1.1 will not apply.*

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## 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
-	-	-
-	-	-
-	-	-
-	-	-



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**2.2 Nitrogen oxides (NOx) (regulation 13)**

2.2.1 The following marine diesel engines installed on this ship are in accordance with the requirements of regulation 13, as indicated:

Applicable regulation of MARPOL Annex VI (NTC = NOx Technical Code 2008) (AM = Approved method)			Engine #1	Engine #2	Engine #3
1	Manufacturer and model		Wartsila 6 RTA62	Wartsila 1050W6L20	Wartsila 1050W6L20
2	Serial number		495	PAAE220896	PAAE220897
3	Use (applicable application cycle(s) - NTC 3.2)		E3	D2	D2
4	Rated power (kW) (NTC 1.3.11)		11400	1100	1100
5	Rated speed (RPM) (NTC 1.3.12)		106	900	900
6	Identical engine installed on or after 1/1/2000 exempted by 13.1.1.2		[-]	[-]	[-]
7	Identical engine installation date (dd/mm/yyyy) as per 13.1.1.2		24/01/92	04/10/2015	04/10/2015
8a	Major conversion (dd/mm/yyyy)	13.2.1.1 & 13.2.2	-	-	-
8b		13.2.1.2 & 13.2.3	-	-	-
8c		13.2.1.3 & 13.2.3	-	-	-
9a	Tier I	13.3	[-]	[-]	[-]
9b		13.2.2	[-]	[-]	[-]
9c		13.2.3.1	[-]	[-]	[-]
9d		13.2.3.2	[-]	[-]	[-]
9e		13.7.1.2	[-]	[-]	[-]
10a	Tier II	13.4	[-]	[x]	[x]
10b		13.2.2	[-]	[-]	[-]
10c		13.2.2 (Tier III not possible)	[-]	[-]	[-]
10d		13.2.3.2	[-]	[-]	[-]
10e		13.5.2 (Exemptions)	[-]	[-]	[-]
10f		13.7.1.2	[-]	[-]	[-]
11a	Tier III (ECA-NOx only)	13.5.1.1	[-]	[-]	[-]
11b		13.2.2	[-]	[-]	[-]
11c		13.2.3.2	[-]	[-]	[-]
11d		13.7.1.2	[-]	[-]	[-]
12	AM*	Installed	[-]	[-]	[-]
13		Not commercially available at this survey	[-]	[-]	[-]
14		Not applicable	[-]	[-]	[-]

\* Refer to the 2014 Guidelines on the approved method process (resolution MEPC.243(66)).

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Applicable regulation of MARPOL Annex VI (NTC = NOx Technical Code 2008) (AM = Approved method)			Engine #4	Engine #5	Engine #6
1	Manufacturer and model				
2	Serial number				
3	Use (applicable application cycle(s) - NTC 3.2)				
4	Rated power (kW) (NTC 1.3.11)				
5	Rated speed (RPM) (NTC 1.3.12)				
6	Identical engine installed on or after 1/1/2000 exempted by 13.1.1.2				
7	Identical engine installation date (dd/mm/yyyy) as per 13.1.1.2		-	-	-
8a	Major conversion (dd/mm/yyyy)	13.2.1.1 & 13.2.2	-	-	-
8b		13.2.1.2 & 13.2.3	-	-	-
8c		13.2.1.3 & 13.2.3	-	-	-
9a	Tier I	13.3			
9b		13.2.2			
9c		13.2.3.1			
9d		13.2.3.2			
9e		13.7.1.2			
10a	Tier II	13.4			
10b		13.2.2			
10c		13.2.2 (Tier III not possible)			
10d		13.2.3.2			
10e		13.5.2 (Exemptions)			
10f		13.7.1.2			
11a	Tier III (ECA-NOx only)	13.5.1.1			
11b		13.2.2			
11c		13.2.3.2			
11d		13.7.1.2			
12	AM*	Installed			
13		Not commercially available at this survey			
14		Not applicable			

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*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 that complies with:

- ☐ .1 resolution MEPC.76(40) as amended by resolution MEPC.93(45).
- ☐ .2 resolution MEPC.244(66).

.2 installed before 1 January 2000 that complies with:

- ☐ .1 resolution MEPC.59(33), as amended by resolution MEPC.92(45).
- ☐ .2 resolution MEPC.76(40) as amended by resolution MEPC.93(45).

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*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

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

Issued at : 18 February 2017

**BUREAU VERITAS**

LUO Jianwang  
By Order of the Secretary

