

No SGI0/ILO/20170207104550

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)*:



^{*} 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 | Orono do | nlatina | substances | (voculation | 12 |
|-----|----------|---------|------------|-------------|-----|
| 2.1 | Ozone-ae | Dieting | substances | regulation | 121 |

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

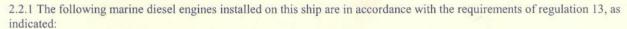
| | System or equipment | Location on board | Substance |
|---|---------------------|-------------------|---|
| - | | | |
| - | | - | |
| | | - | Les States and States |
| | A | | |



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| 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 cycle(s) - NTC | | E3 | D2 | D2 |
| 4 | Rated power (k (NTC 1.3.11) | | 11400 | 1100 | 1100 |
| 5 | Rated speed (R (NTC 1.3.12) | PM) | 106 | 900 | 900 |
| 6 | | e installed on or exempted by | [-] | [-] | [-] |
| 7 | The state of the s | e installation date as per 13.1.1.2 | 24/01/92 | 04/10/2015 | 04/10/2015 |
| 8a | | 13.2.1.1 & 13.2.2 | | | |
| 8b | Major conversion | 13.2.1.2 & 13.2.3 | the section of the section of | and the state of t | |
| 8c | (dd/mm/yyyy) | 13.2.1.3 & 13.2.3 | | | |
| 9a | | 13.3 | [-] | [-] | [-] |
| 9b | | 13.2.2 | [-] | [-] | [-] |
| 9c | Tier I | 13.2.3.1 | [-] | [-] | [-] |
| 9d | | 13.2.3.2 | [-] | [-] | [-] |
| 9e | | 13.7.1.2 | [-] | [-] | [-] |
| 10a | | 13.4 | [-] | [x] | [x] |
| 10b | | 13.2.2 | [-] | [-] | [-] |
| 10c | | 13.2.2 | | | |
| | | (Tier III not | [-] | [-] | [-] |
| - | Tier II | possible) | | | |
| l0d | | 13.2.3.2 | [-] | [-] | [-] |
| l0e | | 13.5.2 | [-] | [-] | [-] |
| | | (Exemptions) | | | |
| 10f | | 13.7.1.2 | [-] | [-] | [-] |
| l la | Tier III | 13.5.1.1 | [-] | [-] | [-] |
| 116 | (ECA-NOx | 13.2.2 | [-] | [-] | [-] |
| l1c | only) | 13.2.3.2 | [-] | [-] | [-] |
| l 1d | | 13.7.1.2 | [-] | [-] | [-] |
| 12 | | Installed | [-] | [-] | [-] |
| 13 | AM* | 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) | | | Engine #4 | Engine #5 | Engine #6 |
|--|--------------------------------|--|-----------|------------------|--|
| | | | | | |
| (AM = Approved method) | | | | | |
| 1 | Manufacturer a | nd model | | | 150 |
| 2 | Serial number | | | | the transfer of the same |
| 3 | Use (applicable cycle(s) - NTC | | | | |
| 4 | Rated power (k (NTC 1.3.11) | | | | |
| 5 | Rated speed (R (NTC 1.3.12) | PM) | | | 1 1 1 1 |
| 6 | | e installed on or exempted by | | | |
| 7 | | e installation date as per 13.1.1.2 | | N= | _ |
| 8a | Major conversion | 13.2.1.1 & 13.2.2 | _ | _ | - |
| 8b | (dd/mm/yyyy) | 13.2.1.2 & 13.2.3 | | 11.0420 _ 17.024 | |
| 8c | | 13.2.1.3 & 13.2.3 | _ | _ | |
| 9a | - | 13.3 | | | |
| 9b | | 13.2.2 | | | |
| 9c | Tier I | 13.2.3.1 | | | |
| 9d | TICL I | 13.2.3.2 | | | |
| 9e | | 13.7.1.2 | | | |
| 10a | | 13.4 | | | The second secon |
| 10b | | 13.2.2 | | | |
| 10c | | 13.2.2 | | 1 | |
| 100 | Tier II | (Tier III not possible) | | 4 | The same of the sa |
| 10d | | 13.2.3.2 | | | |
| 10e | | 13.5.2 | | | |
| 100 | | (Exemptions) | | | |
| 10f | | 13.7.1.2 | | | |
| 11a | Tier III | 13.5.1.1 | | | |
| 116 | (ECA-NOx | 13.2.2 | | | |
| 11c | only) | 13.2.3.2 | | | |
| 11d | | 13.7.1.2 | | | |
| 12 | | Installed | | | |
| 13 | AM* | Not commercially available at this survey | | | The state of the s |
| 14 | | Not applicable | | | |

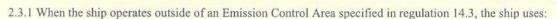
^{*} Refer to the 2014 Guidelines on the approved method process (resolution MEPC.243(66)).



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



| 1 | fuel | oil | with a sulphu | r content as | documented b | v hunker | delivery | notes t | hat doe | e not | exceed | the | limit . | value o | of. |
|-----|------|-----|---------------|--------------|--------------|-----------|----------|-----------|---------|--------|---------|-----|---------|---------|-----|
| . 1 | Iuci | OH | with a sulphu | ii comem a | documented o | y bullker | activet | y motes t | nat uoc | 2 1101 | CALCECT | HIC | HIHIL | value (| JI. |

- [-] 4,50% m/m (not applicable on or after 1 January 2012); or
- [x] 3,50% m/m (not applicable on or after 1 January 2020); or
- [x] 0,50% m/m and/or

| .2 an equivalent arrangement | approved in accordance | e with regulation 4. | 1 as listed in 2.6 | that is at least as | effective in term of |
|-------------------------------|----------------------------|-----------------------|--------------------|---------------------|----------------------|
| SOx emission reductions as co | ompared to using a fuel of | oil with a sulphur co | ontent 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
 - [x] 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