

SUPPLEMENT TO THE INTERNATIONAL AIR POLLUTION PREVENTION CERTIFICATE

No. 90377-V016-002 - R

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 If the language of the original Record is not English, French or Spanish, the text shall include a translation into one of these languages
 - 3 Entries in boxes shall be made by inserting either a cross (x) for the answer "yes" and "applicable" or a dash (-) for the answer "no" and "not applicable" as appropriate.
 - 4 Regulation mentioned in this Record refer to regulations of Annex VI of the Convention and resolutions refer to those adopted by the International Maritime Organization.

1 Particulars of ship

- | | | |
|-----|--|------------------|
| 1.1 | Name of ship | RINA No. 90377 |
| 1.2 | Distinctive number or letters | ALVA |
| 1.3 | Date on which keel was laid or ship was at similar stage of construction | J8B4361 |
| 1.4 | Length (L) metres ¹ | 28 December 1967 |

2 Control of emission 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

¹ 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.

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	Engine #4	Engine #5	Engine #6
Manufacturer and model						
Serial number						
Use (applicable application cycle(s) NTC 3.2) (*)						
Rated Power (kW) (NTC 1.3.11)						
Rated speed (rpm) (NTC 1.3.12)						
Identical engine installed >= 1/1/2000 exempted by 13.1.1.2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Identical engine installation date (dd/mm/yyyy) as per 13.1.1.2						
Date of major conversion (dd/mm/yyyy)	Reg. 13.2.1.1 & 13.2.2					
	Reg. 13.2.1.2 & 13.2.3					
	Reg. 13.2.1.3 & 13.2.3					
Tier I	Reg. 13.3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Reg. 13.2.2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Reg. 13.2.3.1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Reg. 13.2.3.2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tier II	Reg. 13.4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Reg. 13.2.2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Reg. 13.2.2 (Tier III not possible)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Reg. 13.2.3.2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Reg. 13.5.2 (Exemptions)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Reg. 13.7.1.2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Tier III (ECA-NOx only)	Reg. 13.5.1.1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Reg. 13.2.2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Reg. 13.2.3.2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Reg. 13.7.1.2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
AM(**)	Installed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Not commercially available at this survey	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Non Applicable	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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:

2.3.1.1 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

2.3.1.2 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:

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

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

2.3.2.1 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

2.3.2.2 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 and/or

2.4 Volatile organic compounds (VOCs) (regulation 15)

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

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

2.4.1.2 VOC Management Plan approval references:

2.5 Shipboard incineration (regulation 16)

The ship has an incinerator:

2.5.1 installed on or after 1 January 2000 which complies with:

2.5.1.1 resolution MEPC.76(40) as amended²

2.5.1.2 resolution MEPC.244(66)

2.5.2 installed before 1 January 2000 which complies with:

2.5.2.1 resolution MEPC.59(33) as amended³

2.5.2.2 resolution MEPC.76(40) as amended²

2.6 Equivalentents (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: GDANSK

on 23 January 2018



Adam Łobodziński
 Senior Marine Surveyor - RINA Services S.p.A.
 Lobodzinski Adam Konrad
 RINA SERVICES S.p.A.

Use(*)	
E2	For constant speed marine engines for ship main propulsion, including diesel electric drive and variable pitch propeller
E3	For propeller law operated main and propeller law operated auxiliary engines
D2	For constant speed auxiliary engines
C1	For variable speed, variable load auxiliary engines, not included above

- ** Refer to guidelines on the approved method process (resolution MEPC.243(66))
- 2 As amended by resolution MEPC.93(45)
- 3 As amended by resolution MEPC.92(45)

