



Document reference: NOx/2019/2306MC

RDM89301  
IN1729

## ENGINE 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 of the Protocol of 1978 related thereto (hereinafter referred to as "the Convention")

under the authority of the Government of

**IRELAND**

by **BUREAU VERITAS**

Engine Manufacturer	Model number	Serial number	Test Cycle(s) (performed on parent engine)	Rated Power (kW) and Speed (RPM)	Engine Approval number
YANMAR Co., Ltd.	6AYL-WET	5110	D2	438kW x 1500 rpm	MOT331/35/11NOx

***This is to certify :***

1. That the above-mentioned marine diesel engine has been surveyed for pre-certification in accordance with the requirements of the revised Technical Code on Control of Emission of Nitrogen Oxides from Marine Diesel Engines (2008) made mandatory by Annex VI of the Convention ; and
2. That the pre-certification survey shows that the engine, its components, adjustable features, and Technical File, prior to the engine's installation and/or service on board a ship, fully comply with the applicable regulation 13 of Annex VI of the Convention.

This Certificate is valid for the life of the engine subject to surveys in accordance with regulation 5 of Annex VI of the Convention, installed in ships under the authority of this Government.

At PARIS - LA DEFENSE ..... on

*(Place of issue of certificate)*

6 June 2019

*(Date of issue)*



By order of the Secretary,  
O. CARTIER



Supplement to Engine International Air Pollution Prevention Certificate  
(EIAPP Certificate)

**RECORD OF CONSTRUCTION, TECHNICAL FILE  
AND MEANS OF VERIFICATION**

**Notes :**

1. This Record and its attachments shall be permanently attached to the EIAPP Certificate. The EIAPP Certificate shall accompany the engine throughout its life and shall be available on board the ship at all times.
2. If the language of the original Record is neither English nor French, the text shall include a translation into one of these languages.
3. Unless otherwise stated, regulations mentioned in this Record refer to regulations of Annex VI of the convention and the requirements for an engine's Technical File and means of verifications refer to mandatory requirements from the Revised NO<sub>x</sub> Technical Code (2008).

**1. Particulars of the engine**

- 1.1 Name and address of manufacturer : **YANMAR Co., Ltd., Amagasaki plant, 1-1, 1-Chome, Higashi-Dori, Nagasu, Amagasaki, Hyogo, Japan**
- 1.2 Place of engine build : **Tsukaguchi Plant, Amagashi, Hyogo, Japan**
- 1.3 Date of engine build : **March 2019**
- 1.4 Place of pre-certification survey : **as above**
- 1.5 Date of pre-certification survey : **29 amrch 2019**
- 1.6 Engine type and model number : **YANMAR 6AYL-WET**
- 1.7 Engine serial number : **5110**
- 1.8 If applicable, the engine is a parent engine  or a member engine  of the following engine family  or engine group  : **6AYLW15 certified by Bureau Veritas as per Reference N° NOx/2012/0596P**
- 1.9 Individual Engine or Engine Family/ Engine group details:
  - 1.9.1 Approval reference: **MOT331/35/11NOx**
  - 1.9.2 Rated Power (kW) and rated speed (rpm) : **438 kW x 1500 rpm**
  - 1.9.3 Test cycle(s): **D2 (performed on parent engine)**
  - 1.9.4 Parent engine(s) test fuel oil specification: **not applicable**
  - 1.9.5 Applicable NO<sub>x</sub> emission limit (g/kWh), regulation **13.4** : **8.18**
  - 1.9.6 Parent Engine(s) emission value (g/kWh): **7.4 (measured on parent engine)**

**2 Particulars of the Technical File**

The Technical File, as required by chapter 2 of the NOx Technical Code, is an essential part of the EIAPP Certificate and must always accompany an engine throughout its life and always be available on board a ship

2.1 Technical File identification/approval number : **G2-48649-1820 / MOT331/35/11NOx**

2.2 Technical File approval date : **06 june 2019**

**3 Specifications for the On-board NO<sub>x</sub> Verification Procedures for the Engine Parameter Survey**

The specifications for the on-board NOx verification procedures, as required by chapter 6 of the NOx Technical Code, is an essential part of the EIAPP Certificate through its life and always be available on board a ship.

3.1 Engine Parameter check method :

3.1.1 Identification / approval number : **G2-48649-1850 / MOT331/35/11NOx**

3.1.2 Approval date: **06 june 2019**

3.2 Direct Measurement and Monitoring method :

3.2.1 Identification / approval number : **not applicable**

3.2.2 Approval date : **not applicable**

Alternatively the Simplified Measurement method in accordance with 6.3 of the NOx Technical Code may be utilized.

Issued at PARIS - LA DEFENSE ..... on 6 June 2019  
(Place of issue of certificate) (Date of issue)



By order of the Secretary,  
O. CARTIER