SUPPLEMENT TO ENGINE INTERNATIONAL AIR POLLUTION PREVENTION CERTIFICATE

RECORD OF CONSTRUCTION, TECHNICAL FILE, AND MEANS OF VERIFICATION

1 Particulars of the engine

1.1	Name and address of manufacturer	**Yanmar Co., Ltd.** **1-1, 1-Chome, Higashi-Dori Nagasu** **Amagasaki, Japan**			
1.2	Place of engine build	**Amagasaki, Japan**			
1.3	Date of engine build			**2015**	
1.4	Place of pre-certification survey	**Amagasaki, Japan**			
1.5	Date of pre-certification survey			**2015**	
1.6	Engine type and model number			**6EY22ALW**	
1.7	Engine serial number			**0866FMG**	
1.8	If applicable, the engine is a parent engine of the following engine family	☐ ☑	or a member engine engine group	☑ ☐	
				6EY22ALW-A	
1.9	Individual engine or engine family / engine group details:				
1.9.1	Approval reference			**EIAPP-S-900000-0579**	
1.9.2	Rated power (kW) and rated speed (rpm) values or ranges			**970 kW at 900 rpm**	
1.9.3	Test cycle(s)			**D2**	
1.9.4	Parent engine(s) test fuel oil specification			**n/a**	
1.9.5	Applicable NOx emission limit (g/kWh), regulation 13.4			**9.2**	
1.9.6	Parent engine(s) emission value (g/kWh)			**8.8**	

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Certificate No. EIAPP-S-900000-0579

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

under the authority of the Government of

THE REPUBLIC OF PANAMA

by DNV GL

PARTICULARS OF THE ENGINE:

Engine manufacturer:	**Yanmar Co., Ltd.**
Model number:	**6EY22ALW**
Serial number:	**0866FMG**
Test cycle(s):	**D2**
Rated power [kW] and speed [rpm]:	**970 @ 900**
Engine approval number:	**EIAPP-S-900000-0579**

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 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.

Issued at Hamburg, **21st June, 2016**

SAFEGUARDING LIFE, PROPERTY AND THE ENVIRONMENT 18 64 DNV·GL 3373

for Stine Mundal
Head of Section Environmental Certification

2 Particulars of the technical file

The technical file, as required by chapter 2 of the NOx Technical Code 2008, 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	**R4-B19401-(1) & G2-50633-0090-(2) / 26966N**
2.2	Technical file approval date	**2015-11-16**

3 Specifications for the onboard NOx verification procedures

The specifications for the on board NOx verification procedures, as required by chapter 6 of the NOx Technical Code 2008, are an essential part of the EIAPP Certificate and must always accompany an engine through its life and always be available on board a ship.

3.1	Engine parameter check method:	
3.1.1	Identification/approval number	**G2-50633-0080 / 26966N**
3.1.2	Approval date	**2015-11-16**
3.2	Direct measurement and monitoring method:	
3.2.1	Identification/approval number	-
3.2.2	Approval date	-

Alternatively the simplified measurement method in accordance with 6.3 of the NOx Technical Code 2008 may be utilized.

Issued at Hamburg, **21st June, 2016**

DNV·GL 3373

for **Stine Mundal**
Head of Section Environmental Certification

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 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 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 NOx Technical Code 2008.

DNV·GL

Certificate No. EIAPP-S-900000-0577

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

under the authority of the Government of

THE REPUBLIC OF PANAMA

by DNV GL

PARTICULARS OF THE ENGINE:

Engine manufacturer:	**Yanmar Co., Ltd.**
Model number:	**6EY22ALW**
Serial number:	**0864FMG**
Test cycle(s):	**D2**
Rated power [kW] and speed [rpm]:	**970 @ 900**
Engine approval number:	**EIAPP-S-900000-0577**

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 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.

Issued at Hamburg, **21st June, 2016**

SAFEGUARDING LIFE, PROPERTY AND THE ENVIRONMENT 18 64 DNV·GL 3373

for Stine Mundal
Head of Section Environmental Certification

DNV·GL

PLUS Engineering Co., Ltd.
17, Centum Leaders Mark Building Rm no. 3806
APEC-ro
Haeundae-gu
Busan 48060
Republic of Korea

DNV GL SE Approval
Environmental Certification
Brooktorkai 18
20457 Hamburg
Germany
Tel: +49 40 361490

Date:	**Our reference**:	**Your reference**:	**Job ID:**
2016-06-21	MCADE695/CHRLANG/ 14876-J-449		EIAPP20160621-6

IMO NOx CERTIFICATION OF DIESEL ENGINES ACC. MARPOL ANNEX VI, REG. 13
IMO No.: 8508905; "INNOVATOR"
Order No.: 9063 16 36236 153
Manufacturer: Yanmar Co., Ltd.

Engine type	Serial No.	Certificate No.	Flag State
6EY22ALW-A	0864FMG	EIAPP-S-900000-0577	Panama
6EY22ALW-A	0865FMG	EIAPP-S-900000-0578	Panama
6EY22ALW-A	0866FMG	EIAPP-S-900000-0579	Panama

Dear Sir or Madam,

For the above-mentioned engines, please find enclosed certificate(s) in accordance with MARPOL Annex VI, provided with our sign of approval.

The original certificate and technical file shall be with the respective engine during its whole lifetime. These documents are to be kept always on board the vessel.

The certificate is valid for the life of the engine subject to surveys in accordance with regulation 5 of the Revised Annex VI of the MARPOL Convention, provided that the corresponding technical file is either tied up by an unbroken GL seal, originally stamped page by page with the applicable approval number or equipped with the NV perforation stamp on all pages.

Sincerely
for DNV GL SE

Stine Mundal
Head of Section
Mobile: +49 170 785 1363
Direct: +49 40 36149 7138
Stine.Mundal@dnvgl.com

Christin Langosch
Techn. Exp. Env. Certification
Direct: +49 40 36149 3630
christin.langosch@dnvgl.com

Encl. 1 set original of certificate for each of above-mentioned engines

DNV·GL

Certificate No. EIAPP-S-900000-0578

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

under the authority of the Government of

THE REPUBLIC OF PANAMA

by DNV GL

PARTICULARS OF THE ENGINE:

Engine manufacturer:	**Yanmar Co., Ltd.**
Model number:	**6EY22ALW**
Serial number:	**0865FMG**
Test cycle(s):	**D2**
Rated power [kW] and speed [rpm]:	**970 @ 900**
Engine approval number:	**EIAPP-S-900000-0578**

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 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.

Issued at Hamburg, **21st June, 2016**

SAFEGUARDING LIFE, PROPERTY AND THE ENVIRONMENT 18 64 DNV-GL 3373

for Stine Mundal
Head of Section Environmental Certification

2 Particulars of the technical file

The technical file, as required by chapter 2 of the NOx Technical Code 2008, 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	**R4-B19401-(2) & G2-50633-0090-(2) / 26966N**
2.2	Technical file approval date	**2015-11-16**

3 Specifications for the onboard NOx verification procedures

The specifications for the on board NOx verification procedures, as required by chapter 6 of the NOx Technical Code 2008, are an essential part of the EIAPP Certificate and must always accompany an engine through its life and always be available on board a ship.

3.1	Engine parameter check method:	
3.1.1	Identification/approval number	**G2-50633-0080 / 26966N**
3.1.2	Approval date	**2015-11-16**
3.2	Direct measurement and monitoring method:	
3.2.1	Identification/approval number	-
3.2.2	Approval date	-

Alternatively the simplified measurement method in accordance with 6.3 of the NOx Technical Code 2008 may be utilized.

Issued at Hamburg, **21st June, 2016**

DNV·GL 3373

for **Stine Mundal**
Head of Section Environmental Certification

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 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 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 NOx Technical Code 2008.