

ENGINE INTERNATIONAL AIR POLLUTION PREVENTION CERTIFICATE



Rewritten

Certificate No. 24PR040000-EAP-1

(Ex.Cert.No. 21HO02231-EAP-1)

Issued under the provisions of the Protocol of 1997 to the
INTERNATIONAL CONVENTION FOR THE PREVENTION OF POLLUTION FROM SHIPS, 1973,
 as modified by the Protocol of 1978 relating thereto (hereinafter referred to as 'the Convention')
 under the authority of the Government of

the Republic of Panama
 by **NIPPON KAIJI KYOKAI**

Engine Manufacturer	Model number	Serial number	Test Cycle(s)	Rated Power (kW) and Speed (RPM)	Engine Approval number
STX Corporation	STX MAN B&W 6S50MC-C	SB6S50- 7159	E3	9,480 kW 127 RPM	MOT4/523/5

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 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 services 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 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 Piraeus on 11 April 2024

The undersigned declares that he is duly authorized by the said Government to issue this certificate.



D. Kakouris, Surveyor



Note: This certificate was rewritten because of change of the ship's flag.

NIPPON KAIJI KYOKAI

**SUPPLEMENT TO
ENGINE INTERNATIONAL AIR POLLUTION PREVENTION CERTIFICATE
(EIAPP CERTIFICATE)
RECORD OF CONSTRUCTION, TECHNICAL FILE AND MEANS OF VERIFICATION**

In respect of the provisions of Annex VI of the International Convention for the Prevention of Pollution from Ships, 1973, as modified by the Protocol of 1978 relating thereto (hereinafter referred as “the Convention”) and of the Technical Code on Control of Emission of Nitrogen Oxides from Marine Diesel Engines (hereinafter referred to as the “NOx Technical Code”).

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.

1. Particulars of the engine

- 1.1 Name and address of manufacturer STX Corporation
Korea
- 1.2 Place of engine build as above
- 1.3 Date of engine build May 2008
- 1.4 Place of pre-certification survey as above
- 1.5 Date of pre-certification survey 2 June 2008
- 1.6 Engine type and model number STX MAN B&W 6S50MC-C
- 1.7 Engine serial number SB6S50-7159
- 1.8 If applicable, the engine is a parent engine ☐ or a member engine ☒ of the following engine family ☐
or engine group ☒ STX MAN B&W 6S50MC-C-0711-9480-127-BV certified by Bureau Veritas as per Ref
no. NOx/2008/003PC
- 1.9 Test cycle(s) (see chapter 3 of the NOx Technical Code) E3
- 1.10 Rated Power (kW) and Speed (RPM) 9,480 kW 127 RPM
- 1.11 Engine approval number MOT4/523/5
- 1.12 Specification(s) of test fuel DM grade(ISO8217)
- 1.13 NOx reducing device designated approval number (if installed) Nil
- 1.14 Applicable NOx Emission Limit (g/kWh) (regulation 13 of Annex VI) 17.00 g/kWh
- 1.15 Engine's actual NOx Emission Value (g/kWh) 15.6 g/kWh



2. Particulars of the Technical File

- 2.1 Technical File identification/approval number NT08-1122 / MOT4/523/5NOx
- 2.2 Technical File approval date 17 July 2008
- 2.3 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.

3. Specification for the On-board NOx Verification Procedures for the Engine Parameter Survey

- 3.1 On-board NOx verification procedures identification/approved number NT08-1122 / MOT4/523/5NOx
- 3.2 On-board NOx verification procedures approval date 17 July 2008
- 3.3 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 and must always accompany an engine throughout its life and always be available on board a ship.

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

Issued at Piraeus on 11 April 2024



D. Kakouris, Surveyor

NIPPON KAIJI KYOKAI



ENGINE INTERNATIONAL AIR POLLUTION PREVENTION CERTIFICATE



Rewritten

Certificate No. 24PR040000-EAP-2
(Ex.Cert.No. 21HO02231-EAP-2)

Issued under the provisions of the Protocol of 1997 to the
INTERNATIONAL CONVENTION FOR THE PREVENTION OF POLLUTION FROM SHIPS, 1973,
as modified by the Protocol of 1978 relating thereto (hereinafter referred to as 'the Convention')
under the authority of the Government of

the Republic of Panama
by **NIPPON KAIJI KYOKAI**

Engine Manufacturer	Model number	Serial number	Test Cycle(s)	Rated Power (kW) and Speed (RPM)	Engine Approval number
Yanmar Co., Ltd.	6EY18AL	0498FXH	D2	660 kW 900 RPM	08KB11252

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 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 services 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 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 Piraeus on 11 April 2024

The undersigned declares that he is duly authorized by the said Government to issue this certificate.



Note: This certificate was rewritten because of change of the ship's flag.

D. Kakouris, Surveyor

NIPPON KAIJI KYOKAI

SUPPLEMENT TO
ENGINE INTERNATIONAL AIR POLLUTION PREVENTION CERTIFICATE
(EIAPP CERTIFICATE)
RECORD OF CONSTRUCTION, TECHNICAL FILE AND MEANS OF VERIFICATION

In respect of the provisions of Annex VI of the International Convention for the Prevention of Pollution from Ships, 1973, as modified by the Protocol of 1978 relating thereto (hereinafter referred as “the Convention”) and of the Technical Code on Control of Emission of Nitrogen Oxides from Marine Diesel Engines (hereinafter referred to as the “NOx Technical Code”).

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.

1. Particulars of the engine

- 1.1 Name and address of manufacturer Yanmar Co., Ltd.
1-1-1, Higashi-dori, Nagasu, Amagasaki, Hyogo, Japan
- 1.2 Place of engine build Amagasaki Plant
1-1-1, Higashi-dori, Nagasu, Amagasaki, Hyogo, Japan
- 1.3 Date of engine build 27 November 2008
- 1.4 Place of pre-certification survey Amagasaki, Japan
- 1.5 Date of pre-certification survey 15 December 2008
- 1.6 Engine type and model number 6EY18AL
- 1.7 Engine serial number 0498FXH
- 1.8 If applicable, the engine is a parent engine ☐ or a member engine ☒ of the following engine family ☐
or engine group ☒ 6EY18AL
- 1.9 Test cycle(s) (see chapter 3 of the NOx Technical Code) D2
- 1.10 Rated Power (kW) and Speed (RPM) 660 kW 900 RPM
- 1.11 Engine approval number 08KB11252
- 1.12 Specification(s) of test fuel DM grade(ISO8217)
- 1.13 NOx reducing device designated approval number (if installed) Nil
- 1.14 Applicable NOx Emission Limit (g/kWh) (regulation 13 of Annex VI) 11.3 g/kWh
- 1.15 Engine's actual NOx Emission Value (g/kWh) 10.5 g/kWh



2. Particulars of the Technical File

- 2.1 Technical File identification/approval number G2-46623-0040 / 08KB11252TF
- 2.2 Technical File approval date 15 December 2008
- 2.3 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.

3. Specification for the On-board NOx Verification Procedures for the Engine Parameter Survey

- 3.1 On-board NOx verification procedures identification/approved number G2-46623-0050 / 08KB11252TF
- 3.2 On-board NOx verification procedures approval date 15 December 2008
- 3.3 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 and must always accompany an engine throughout its life and always be available on board a ship.

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

Issued at Piraeus on 11 April 2024



D. Kakouris, Surveyor

NIPPON KAIJI KYOKAI



ENGINE INTERNATIONAL AIR POLLUTION PREVENTION CERTIFICATE



Rewritten

Certificate No. 24PR040000-EAP-3
(Ex.Cert.No. 21HO02231-EAP-3)

Issued under the provisions of the Protocol of 1997 to the
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as modified by the Protocol of 1978 relating thereto (hereinafter referred to as 'the Convention')
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the Republic of Panama
by **NIPPON KAIJI KYOKAI**

Engine Manufacturer	Model number	Serial number	Test Cycle(s)	Rated Power (kW) and Speed (RPM)	Engine Approval number
Yanmar Co., Ltd.	6EY18AL	0499FXH	D2	660 kW 900 RPM	08KB11253

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 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 services 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 engine subject to surveys in accordance with regulation 5 of Annex VI of the Convention, installed in ships under the authority of this Government.

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D. Kakouris, Surveyor

NIPPON KAIJI KYOKAI

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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.

1. Particulars of the engine

- 1.1 Name and address of manufacturer Yanmar Co., Ltd.
1-1-1, Higashi-dori, Nagasu, Amagasaki, Hyogo, Japan
- 1.2 Place of engine build Amagasaki Plant
1-1-1, Higashi-dori, Nagasu, Amagasaki, Hyogo, Japan
- 1.3 Date of engine build 27 November 2008
- 1.4 Place of pre-certification survey Amagasaki, Japan
- 1.5 Date of pre-certification survey 15 December 2008
- 1.6 Engine type and model number 6EY18AL
- 1.7 Engine serial number 0499FXH
- 1.8 If applicable, the engine is a parent engine ☐ or a member engine ☒ of the following engine family ☐
or engine group ☒ 6EY18AL
- 1.9 Test cycle(s) (see chapter 3 of the NOx Technical Code) D2
- 1.10 Rated Power (kW) and Speed (RPM) 660 kW 900 RPM
- 1.11 Engine approval number 08KB11253
- 1.12 Specification(s) of test fuel DM grade(ISO8217)
- 1.13 NOx reducing device designated approval number (if installed) Nil
- 1.14 Applicable NOx Emission Limit (g/kWh) (regulation 13 of Annex VI) 11.3 g/kWh
- 1.15 Engine's actual NOx Emission Value (g/kWh) 10.5 g/kWh



2. Particulars of the Technical File

- 2.1 Technical File identification/approval number G2-46623-0040 / 08KB11253TF
- 2.2 Technical File approval date 15 December 2008
- 2.3 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.

3. Specification for the On-board NOx Verification Procedures for the Engine Parameter Survey

- 3.1 On-board NOx verification procedures identification/approved number G2-46623-0050 / 08KB11253TF
- 3.2 On-board NOx verification procedures approval date 15 December 2008
- 3.3 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 and must always accompany an engine throughout its life and always be available on board a ship.

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

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D. Kakouris, Surveyor

NIPPON KAIJI KYOKAI



ENGINE INTERNATIONAL AIR POLLUTION PREVENTION CERTIFICATE



Rewritten

Certificate No. 24PR040000-EAP-4
(Ex.Cert.No. 21HO02231-EAP-4)

Issued under the provisions of the Protocol of 1997 to the
INTERNATIONAL CONVENTION FOR THE PREVENTION OF POLLUTION FROM SHIPS, 1973,
as modified by the Protocol of 1978 relating thereto (hereinafter referred to as 'the Convention')
under the authority of the Government of

the Republic of Panama
by **NIPPON KAIJI KYOKAI**

Engine Manufacturer	Model number	Serial number	Test Cycle(s)	Rated Power (kW) and Speed (RPM)	Engine Approval number
Yanmar Co., Ltd.	6EY18AL	0500FXH	D2	660 kW 900 RPM	08KB11254

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 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 services on board a ship, fully comply with the applicable regulation 13 of Annex VI of the Convention.

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D. Kakouris, Surveyor

NIPPON KAIJI KYOKAI

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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.

1. Particulars of the engine

- 1.1 Name and address of manufacturer Yanmar Co., Ltd.
1-1-1, Higashi-dori, Nagasu, Amagasaki, Hyogo, Japan
- 1.2 Place of engine build Amagasaki Plant
1-1-1, Higashi-dori, Nagasu, Amagasaki, Hyogo, Japan
- 1.3 Date of engine build 27 November 2008
- 1.4 Place of pre-certification survey Amagasaki, Japan
- 1.5 Date of pre-certification survey 15 December 2008
- 1.6 Engine type and model number 6EY18AL
- 1.7 Engine serial number 0500FXH
- 1.8 If applicable, the engine is a parent engine ☐ or a member engine ☒ of the following engine family ☐
or engine group ☒ 6EY18AL
- 1.9 Test cycle(s) (see chapter 3 of the NOx Technical Code) D2
- 1.10 Rated Power (kW) and Speed (RPM) 660 kW 900 RPM
- 1.11 Engine approval number 08KB11254
- 1.12 Specification(s) of test fuel DM grade(ISO8217)
- 1.13 NOx reducing device designated approval number (if installed) Nil
- 1.14 Applicable NOx Emission Limit (g/kWh) (regulation 13 of Annex VI) 11.3 g/kWh
- 1.15 Engine's actual NOx Emission Value (g/kWh) 10.5 g/kWh



2. Particulars of the Technical File

- 2.1 Technical File identification/approval number G2-46623-0040 / 08KB11254TF
- 2.2 Technical File approval date 15 December 2008
- 2.3 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.

3. Specification for the On-board NOx Verification Procedures for the Engine Parameter Survey

- 3.1 On-board NOx verification procedures identification/approved number G2-46623-0050 / 08KB11254TF
- 3.2 On-board NOx verification procedures approval date 15 December 2008
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