STATEMENT OF VOLUNTARY COMPLIANCE FOR ENGINE AIR POLLUTION PREVENTION

(Note: This statement of voluntary compliance shall be supplemented by a Record of Construction, Technical File and Means of Verification)

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") at the request of:

Cummins

(Engine Manufacturer)

by the **American Bureau of Shipping**

Engine Manufacturer	Model Number	Serial Number
Cummins	KTA50-M2 FR Option: FR6211	33206131
Test Cycle(s)	Rated Power (kW) And Speed (RPM)	Engine Approval Number
E3	1342 kW @ 1900 RPM	ABSHS-NTC-1063-0009-02219

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 statement of voluntary compliance is valid for the life of the engine, subject to surveys in accordance with regulation 5 of Annex VI of the Convention.

Issued at: Houston, Texas on 11 November 2015

ABS

Prasad Mantravadi

Surveyor, American Bureau of Shipping

ABS HOUSTON, TEXAS, USA

SUPPLEMENT TO STATEMENT OF VOLUNTARY COMPLIANCE FOR ENGINE AIR POLLUTION PREVENTION (SOVCEAPP)

RECORD OF CONSTRUCTION, TECHNICAL FILE AND MEANS OF VERIFICATION

Notes:

1. This Record and its attachments shall be permanently attached to the SOVCEAPP. The SOVCEAPP 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 Revised NO_x Technical Code 2008.

1 Particulars of the Engine

1.1 Name and address of manufacturer

Cummins Inc.
500 Jackson Street
Columbus, IN 47201
USA

1.2 Place of engine build

Cummins Ltd.
Royal Oak Way South
Daventry, Northants NN11 8NU
UK

1.3 Date of engine build: 9 November 2015

1.4 Place of pre-certification survey: Cummins,Royal Oak Way South,Daventry,Northants NN11 8NU,UK

1.5 Date of pre-certification survey: 16 September 2015

1.6 Engine type and model number: KTA50-M2, FR Option: FR6211

1.7 Engine serial number: 33206131

1.8 If applicable, the engine is a Parent Engine ☐ or a Member Engine ☒ of the following Engine Family ☒ or Engine Group ☐ M32TA

1.9 Individual Engine or Engine Family / Engine Group details:

1.9.1 Approval reference: ABSHS-NTC-1063-0009-00001 (Parent Engine)

1.9.2 Rated Power (kW) and Speed (RPM) values or ranges: 447 kW @ 1800 RPM (Parent Engine)

1.9.3 Test cycle(s): E3 Cycle: Prop.-Law-Operated Main & Prop.-Law-Operated Auxiliary Engine App.

1.9.4 Parent Engine(s) test fuel oil specification: ISO 8217, DM Grade

1.9.5 Applicable NO_x Emission Limit (g/kWh), regulation 13.3, 13.4, or 13.5.1

☒ 13.3 ☐ 13.4 ☐ 13.5.1 9.8

1.9.6 Parent Engine(s) Emission Value (g/kWh): 9.78

2 Particulars of the Technical File

The Technical File, as required by chapter 2 of the NO_x 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 ABSHS-NTC-1063-0009-02219

2.2 Technical File approval date 11 November 2015

3 Specifications for the On-board NO_x Verification Procedures

The specifications for the on-board NO_x verification procedures, as required by chapter 6 of the NO_x 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 ABSHS-NTC-1063-0009-02219

3.1.2 Approval date 11 November 2015

3.2 Direct Measurement and Monitoring method:

3.2.1 Identification/approval number N/A

3.2.2 Approval date N/A

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

Issued at: Houston, Texas on 11 November 2015

ABS

Prasad Mantravadi

Surveyor, American Bureau of Shipping

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