

Valid with unbroken seal only

CERTIFIED TRUE COPY

Germanischer Lloyd

Hamburg

2007-03-07

S. Neddenien
S. Neddenien

K. Diekmann
K. Diekmann

EJA PP

**Technical File
for C32 Marine
Propulsion Engine
@ 2300 RPM
(Engine Family C32P2300)**

ORIGINAL CERTIFICATE IN BOOK SHELF

Engine Model	C32
Engine Serial No.	RXB02980
Performance Spec.	0K-5329
GL Family Approval No.	36830-03 HH

**Do Not Discard
This Document is to be kept on board.**

EMISSION CERTIFICATION	
Approval No.:	Date:
40397-06HH	2006-09-25
Germanischer Lloyd Head Office Hamburg	

K.-E. Beese
K.-E. Beese

K. Diekmann
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Germanischer Lloyd

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Diane Coriell
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Caterpillar Inc. reference	e-mail of Caterpillar Inc. of	Our reference	Extension	Date
	2007-01-26	07-030040-KDi/MaDr	+49 40 36149-7220	2007-03-07

IMO NOx Certification
D/E Cat C32, Serial No. RXB02980, Certificate No. 40397-06 HH
Caterpillar Reference CDRRM
GL Order No.: 7620 07 60796 143

Dear Sir or Madam,

Enclosed please find the certificate(s) and Technical File(s) in accordance with MARPOL Annex VI for a.-m. engine(s), provided with our sign of approval.

For your information we would like to point out that the originals shall be with the engine during its whole lifetime and are to be kept always on-board the vessels.

The certificate is valid for the life of the engine, subject to surveys in accordance with regulation 5 of Annex VI of MARPOL 73/78 provided that the seal of the Technical File is unbroken.

Our relevant account of fees will be charged separately (a.-m. GL order no.).

Yours faithfully,

Germanischer Lloyd


Sven Neddenien


Kerstin Diekmann

Encl.

1 set Certified True Copy of certificate and Technical File for each of a.-m. engine

Chairman of the Supervisory Board: *Wolfgang Peiner* • Executive Board: *Hermann J. Klein* • *Rainer Schoendube*
Germanischer Lloyd Aktiengesellschaft, Registered Office Hamburg, HR B 31393

Place of performance and jurisdiction is Hamburg. The latest edition of the General Terms and Conditions of Germanischer Lloyd is applicable.
German law applies.

ENGINE INTERNATIONAL AIR POLLUTION PREVENTION CERTIFICATE

Issued under the provisions of the
Protocol of 1997 to amend 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

Kingdom of Denmark

by

Germanischer Lloyd

Engine Manufacturer	Model Number	Serial Number	Test Cycle	Rated Power (kW) and Speed (rpm)	Engine Approval Number
Caterpillar Inc.	C32	RXB02980	E2/E3	1044 2300	40397-06 HH

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 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, 2006-09-25

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Karl-Ernst Beese

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**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 Protocols of 1978 and 1997 relating thereto (hereinafter referred to as "the Convention") and of the Technical Code on Control of Emission of Nitrogen Oxides from Marine Diesel Engines (hereinafter referred to as the "NO_x Technical Code").

1 PARTICULARS OF THE ENGINE

- | | | |
|------|--|---|
| 1.1 | Name and address of manufacturer | Caterpillar Inc.
P.O.Box 610
Mossville, IL 61552-0610 USA |
| 1.2 | Place of engine build | Caterpillar, Griffin, Georgia, USA |
| 1.3 | Date of engine build | 2006 |
| 1.4 | Place of pre-certification survey | Caterpillar, Griffin, Georgia, USA |
| 1.5 | Date of pre-certification survey | 2006 |
| 1.6 | Engine type and model number | C32 |
| 1.7 | Engine serial number | RXB02980 |
| 1.8 | If applicable, the engine is a parent engine <input type="checkbox"/> or a member engine <input checked="" type="checkbox"/>
of the following engine family <input checked="" type="checkbox"/> engine group <input type="checkbox"/> | C32P2300
36830-03 HH |
| | As approved with GL approval no. | E2/E3 |
| 1.9 | Test cycle(s) (see chapter 3 of the NO _x Technical Code) | 1044 kW at 2300 rpm |
| 1.10 | Rated MCR power (kW) and speed (rpm) | 40397-06 HH |
| 1.11 | Engine approval number | ISO-F-DMX |
| 1.12 | Specification(s) of test fuel | None |
| 1.13 | NO _x reducing device designated approval number (if installed) | 9.8 |
| 1.14 | Applicable NO _x emission limit (g/kWh) (regulation 13 of Annex VI) | 9.1/9.2 |
| 1.15 | Engine's actual NO _x emission value (g/kWh) | |

Note: This record shall be permanently attached to the EIAPP certificate no.40397-06 HH

2 PARTICULARS OF THE TECHNICAL FILE

- 2.1 Technical file identification/approval number **40397-06 HH**
- 2.2 Technical file approval date **2006-09-25**
- 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 SPECIFICATIONS FOR THE ON-BOARD NO_x VERIFICATION PROCEDURES FOR THE ENGINE PARAMETER SURVEY

- 3.1 On-board NO_x verification procedures identification/approval number **40397-06 HH**
- 3.2 On-board NO_x verification procedures approval date **2006-09-25**
- 3.3 The specifications for the on board NO_x verification procedures, as required by chapter 6 of the NOx Technical Code, 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.

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

Issued at Germanischer Lloyd Head Office, Hamburg, 2006-09-25



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2007 - 03 - 07

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