



# 中国船级社

## CHINA CLASSIFICATION SOCIETY

### 产品证书

### CERTIFICATE OF PRODUCT

证书格式号/Form: P01.01-HQ001913

证书编号/Certificate No. LD09P00477

兹证明应 Seatrax, Inc. 的申请，  
下列产品经本社署名验船师检验，符合本证书注明标准的要求。

**This is to certify that, upon request of**  
Seatrax, Inc.

the following products have been inspected by the undersigned surveyor to the Society and are found to comply with the requirements of the specified standards.

制造厂名 Seatrax, Inc.  
Manufacturer Seatrax, Inc.

订货方 China National Offshore Oil Corporation  
Purchaser China National Offshore Oil Corporation

产品名称 起重机  
Product Cranes

认可证书号/Cert. No. of Approval: Nil. 图纸批准号/Approval No. of drawings: Nil.

用于 CNOOC Oil Base Group Ltd-Supervision&Technology Company, Hull No. :HYSY298 barge  
Intended for

产品使用限定 Marine  
Restriction for application of product


产品编号 4573-UK  
SerialNo.

#### 产品检验标准/ Product Inspection Standard

- 1.CCS《船舶与海上设施起重设备规范》（2007）  
CCS Rules for Lifting Appliances of Ships and Offshore Installations 2007
- 2.CCS《材料与焊接规范》（2006）及其修改通报  
CCS Rules for Material and Welding(2006) and its Amendments
- 3.中国船级社批准的图纸  
The Drawings Approved by CCS

#### 产品检验标志/Marking

位置/Position : 在产品上/ On the product

标志样式/ Type of Marking : 

发证日期 2010年3月23日  
Date of issue Mar. 23, 2010

验船师 刘林 Liu Lin  
Surveyor

本证书根据中国船级社《钢质海船入级规范》及有关程序规定签发。关于证书的有关规定见本证书背面的说明。当本证书包括多页纸张时，则所有证书页为一个整体，必须同时使用。每一页证书均须由本社盖章方为有效。证书复印件无效。任何单位和个人均不应摘录或节选本证书的部分内容。本认可证书不代表本社对个体产品质量的检验。有关各方对所持证书的真实性有疑问时，可以向本社检验机构咨询。  
This Certificate is issued pursuant to the Rules for Classification of Sea-going Steel Ships and related procedures of the Society. Refer to the back of the certificate for detailed requirements of the certificate. When the certificate consists of more than one page, all pages of the certificate are taken as a whole and are used simultaneously. No certificate page is valid without bearing the stamp of the Society and no copied form of the certificate is regarded as valid. Any part of the certificate is not to be extracted or abridged by any unit or individual in any form. This approval certificate does not constitute the inspection of the Society about the quality of the unit/batch product. Related parties who are doubted about the authenticity of the certificate may inquire of the Society or its offices.



中国船级社总部/CCS headquarters: 北京市东直门南大街9号船检大厦 邮编: 100007 电话/Tel: +86(10)58112288 传真/Fax: +86(10)58112811  
CCS Mansion, 9 Dongzhimen Nan Da Jie, Beijing 100007, China 网址/Web Site: <http://www.ccs.org.cn>

本地检验机构/CCS Local Office: 中国船级社伦敦办事处 CCS London Office 电话/Tel: 0044-020-76635628 传真/Fax: 0044-020-76635824

LD12270193

Nº 10308720

**产品明细/ Product Description**

起重机/Cranes	
产品编号/Serial No.	: 4573-UK
产品名称/Product	: Crane
产品型号/TYPE	: API 2C 6th Edition Type 'E' Crane
最大幅度/Jib radius, maximum	: 52 m
起升速度/Lifting speed	: 8m trs/min
最小幅度/Jib radius, minimum	: 9 m
安全工作负荷/Safety Working Load	: ASME SWL of 554619lbs with 250 tons; API Rules 172193kgs kN
钢索规格/Specitication of Steel Wire Rope	: Perfekt TK16 EVO/ API 9A
起升速度/Hoisting speed	: 8 m/min
回转角度/Slewing angle	: 360度
起升高度/Hoisting height	: 40mtrs above Boom Foot Pin
数量/Quantity	: 1 台/Sets
电动机型号/Motor type	: Piston
变幅时间/Luffing Time	: 220 s
最大允许倾角(纵倾/横倾)/Max.allowable angle(Trim/List)	: 3度/5度
旋转速度/Slewing Speed	: 0-1 RPM r/min
滑车吊钩型号/编号/Type of block with hook/Serial no.	: 6 Sheave Hook Block/ Main Block TA3209-4573
液压泵/Hydraulic pump	: Piston Variable Displacement
液压系统工作压力/Hydraulic systems working pre.	: 6000PSI Max
主钩安全工作负荷/Main hook safety working load	: ASME 554619lbs, API 172193kgs
副钩安全工作负荷/Whip hook safety working load	: ASME 57050lbs, API 25877kgs
主钩最大回转半径/Main max slewing radius	: 52 mtrs
副钩最大回转半径/Whip hook max slewing radius	: 52 mtrs
主钩最小回转半径/Main hook min slewing radius	: 9 mtrs
副钩最小回转半径/Whip hoop min slewing radius	: 9 mtrs
主钩起升高度/Main hook hoisting height	: 40mtrs above Boom Foot Pin
副钩起升高度/Whip hook hoisting height	: 45mtrs above Boom Foot Pin
主钩起升速度(在安全工作负载下)/Main hook lifting speed (at S.W.L)	: 6 mtrs/min
回转速度(在空载下)/Slewing speed (without load)	: 0-1 RPM
副钩起升速度/Whip hook lifting speed (at S.W.L)	: 0.5mtrs from Boom Stops
变幅范围/Luffing limit setting	: 80 mtrs/min
变幅时间(在空载下)/Luffing time (without load)	: 220 secs
吊臂停放角度/Angle for stowing boom	: Horizontal
最大允许倾角(纵倾/横倾)/Max allowable angle (Trim/List)	: 3度/5度
主钩吊钩滑车型号/编号/Type of hook block /Serial No.	: TA3209 4573-UK
柴油机型号/编号/Diesel engine type/Serial No.	: Caterpillar 3412 38S25392

副钩吊钩, 卸扣型号/编号/Whip hook hook shackle of type/Serial No. : 5370-017 - 4573  
副钩起升速度(在安全工作负荷下)/Whip Hook Lifting Speed (At Safety Working Load) : 80 mtrs/min

**产品检验方式/ Method of Product Inspection**

按照规范逐件检验的产品/The product inspected one by one in term of the rules:

认可后的产品检验应由本社验船师根据本社规范规定逐件按批准的产品检验计划进行检验, 经检验合格后由本社颁发产品证书。

After approval, product inspection should be carried out one by one by the Surveyor of the Society in accordance with the approved product inspection scheme, and the Product Certificate will be issued by the Society upon satisfactory inspection.

**原材料和零部件的检验/ Inspection of Material and Components**

该产品的如下原材料/零部件业经本社检验 The following materials and components of the product were inspected by the Society:

Winch = Boom, Main and Aux Hoist Winches

Moving Parts = 2 Blocks

Crane Hook = 1 x Main Hook, 1 x Aux Hook

Engine = Caterpillar 3412C x 1

**责任声明/ Statement of Responsibility**

本社的检验不影响、替代与本社授权或检验无关的各方对上述工厂的认可和发证, 并且不对与本社授权或检验无关的各方负责, 不承担其未经应允而承认、接受本社检验所导致的法律和经济责任。

The inspection of the Society does not affect and replace any approval and certification of the manufacturer by any parties that bear no relation with this Society's authorization or survey and therefore takes no responsibility for these parties. The Society does not undertake any legal and economic liabilities arising from accepting this Society's certificate without prior permission from this Society.

**其他/Others**

1. THE CRANE WAS FUNCTION TESTED AT THE FACTORY IN ACCORDANCE WITH CRANE TEST PROCEDURE on 19th Nov., 2009.

2. THE FINAL ACCEPTANCE AND LOAD TEST SHOULD BE CARRIED OUT ON BOARD WITH CCS SURVEYOR ATTENDANCE.



中国船级社伦敦办事处  
CCS London Office

\*\*\*\*\*本证书正文完/ End of Text\*\*\*\*\*



中国船级社  
CHINA CLASSIFICATION SOCIETY

Form: CP168  
格式

编号 LD09P00478  
No.

柴油机国际防止空气污染证书

ENGINE INTERNATIONAL AIR POLLUTION PREVENTION CERTIFICATE

本证书系根据经1978议定书修订的1973年国际防止船舶造成污染公约（以下简称公约）的1997年议定书的规定，经 中华人民共和国 政府授权，由中国船级社发给。

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 related thereto (hereinafter referred to as "the Convention") under the authority of the Government of :

the People's Republic of China

by China Classification Society

柴油机制造商 Caterpillar

Engine Manufacture Caterpillar

型号

Model number 3412C(OK-2777)

序号

Serial Number 38S25392

试验循环

Test Cycle(s) C1

额定功率 (kW) 和转速 (RPM)

Rated Power(kW) And Speed(RPM) 576kW@2100RPM

柴油机批准号

Engine Approval Number ABSHS-NTC-1049-0004-00198

兹证明:

THIS IS TO CERTIFY:

1. 上述船用柴油机已按照公约附则VI强制规定的船用柴油机氮氧化物排放控制技术规则的要求进行了前期发证检验; 和

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. 前期发证检验表明, 柴油机在船上安装和/或运行之前该柴油机构件、可调特性及技术案卷完全符合公约附则VI第13条的适用规定。

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.

在本政府的授权下安装在船上并按照公约附则VI的第5条规定接受检验的发动机的使用期内, 本证书是有效的。

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.

发证地点

issued at CCS London Office

发证日期

issued on 2009-12-30

刘林 Liu Lin

中国船级社验船师

Surveyor to China Classification Society

Nº 10308721

3.2 船上NO<sub>x</sub>核实程序的批准日期 2009-10-19

On-board NO<sub>x</sub> verification procedures approval date

3.3 如NO<sub>x</sub>技术规则第6章的要求，船上NO<sub>x</sub>核实程序的技术说明是EIAPP证书重要组成部分并且必须一直伴随柴油机的整个使用寿命并一直保存在船上。

The specifications for the on-board NO<sub>x</sub> verification procedures, as required by chapter 6 of the NO<sub>x</sub> Technical Code, is an essential part of the EIAPP Certificate and must always accompany an engine through its life and always be available on board a ship.

兹证明本记录完全无误

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

发证地点 CCS-London

Issued at

发证日期 2009-12-30

Date of issue



刘林

(Liu Lin)

中国船级社验船师

Surveyor to China Classification Society

柴油机国际防止空气污染证书的附录  
Supplement to Engine International Air Pollution Prevention Certificate  
(EIAPP证书/EIAPP Certificate)

结构, 技术案卷及核实方法记录

RECORD OF CONSTRUCTION, TECHNICAL FILE AND MEANS OF VERIFICATION

按照经 1978 年和 1997年议定书修订的 1973 年国际防止船舶造成污染公约 (以下简称公约) 附则VI的规定以及船用柴油机氮氧化物排放控制技术规则 (以下简称NOx技术规则) 的规定

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 "NOx Technical Code").

注/ Notes:

- 1 本记录及其附件应永久附在EIAPP证书后面, EIAPP证书应伴随该柴油机整个使用寿命并应随时保存在船上。

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 如果原始记录的文字不是英文亦不是法文, 则该文本应包含其中一种文字的译文。 If the language of the original Record is neither English nor French, the test shall include a translation into one of these languages.

- 3 除另有明文规定外, 本记录所述条款系指公约附则VI的条款, 柴油机的技术案卷和核实方法的要求系指NOx技术规则的强制性要求。

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 柴油机资料

Particulars of the engine

Caterpillar, Inc., 100 N.E. Adams Street Peoria, IL 47905, U. S. A.

1.1 制造厂的名称和地址

Name and address of manufacturer

Caterpillar, Inc., 100 N.E. Adams Street Peoria, IL 47905, U.S.A.

1.2 柴油机制造/改装地点

Caterpillar, Inc., Route 29 and Galena Road, Mossville, IL 61552

Place of engine build/substantial modification Caterpillar, Inc., Route 29 and Galena Road, Mossville, IL 61552

- 1.3 柴油机制造/改装日期 2009-06-25  
Date of engine build/substantial modification
- 1.4 前期发证检验地点 Caterpillar, Inc., Route 29 and Galena Road, Mossville, IL 61552  
Place of pre-certification survey Caterpillar, Inc., Route 29 and Galena Road, Mossville, IL 61552
- 1.5 前期发证检验日期 2009-08-18  
Date of pre-certification survey
- 1.6 机器型式及型号 Caterpillar Model:3412C(0K-2777)  
Engine type and model number
- 1.7 机器序号 38S25392  
Engine serial number
- 1.8 若适用, 该柴油机是下列柴油机族  或柴油机组  的母型机  或成员机
- If applicable, the engine is a parent engine  or a member engine  of the following engine family  or engine group
- 1.9 试验循环 (见NOx技术规则的第三章) C1 Cycle: Variable Speed and Variable Load Auxiliary Engine  
Test cycle(s) (see chapter 3 of the NOx Technical Code)
- 1.10 额定功率 (kW) 及转速 (RPM) 567kW @ 2100RPM  
Rated Power (kW) and Speed (RPM)
- 1.11 机器批准号 ABSHS-NTC-1049-0004-00198  
Engine approval number
- 1.12 试验燃油的规格 ISO 8217, DMX  
Specification(s) of test fuel
- 1.13 NOx减少装置特指的批准号 (如果安装) N/A  
NOx reducing device designated approval number (if installed)
- 1.14 适用的氮氧化物排放限制 (g/kWh) (附则VI第13条) 9.8  
Applicable NOx Emission Limit (g/kWh)(regulation 13 of Annex VI)
- 1.15 柴油机实际NOx排放值(g/kWh) 8.5  
Engine's actual NOx Emission Value (g/kWh)

## 2 技术案卷资料

### Particulars of the Technical File

- 2.1 技术案卷标识号/批准号 ABSHS-NTC-1049-0004-00198  
Technical File identification/approval number
- 2.2 技术案卷批准日期 2009-10-19  
Technical File approval date
- 2.3 如同NOx技术规则第2章所要求的那样, 技术案卷是EIAPP证书的重要组成部分且必须一直伴随柴油机的整个使用寿命一直保存在船上。  
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 柴油机参数检验的船上NOx核实程序的技术说明

### Specifications for the On-board NOx Verification Procedures for the Engine Parameter Survey

- 3.1 船上NOx核实程序的标识号/批准号 ABSHS-NTC-1049-0004-00198  
On-board NOx verification procedures identification/approval number



# 中国船级社

## CHINA CLASSIFICATION SOCIETY

### 产品证书

### CERTIFICATE OF PRODUCT

证书格式号/Form: P01.01-  
NJ000234

证书编号/Certificate No. LD09P00479

兹证明应 Seatrax, Inc. 的申请，  
下列产品经本社署名验船师检验，符合本证书注明标准的要求。

**This is to certify that, upon request of**  
Seatrax, Inc.

the following products have been inspected by the undersigned surveyor to the Society and are found to comply with the requirements of the specified standards.

制造厂名 Seatrax, Inc.

Manufacturer Seatrax, Inc.

订货方 CNOOC Oil Base Group Ltd.

Purchaser CNOOC Oil Base Group Ltd.

产品名称 Kingpost

Product Kingpost

认可证书号/Cert. No. of Approval: Nil 图纸批准号/Approval No. of drawings: Nil

用于 CNOOC Oil Base Group Ltd-Supervision&Technology Company, Hull No. :HYSY298 barge

产品使用限定 国际航行船舶ships engaged in international voyages

产品编号 41452

SerialNo. 41452

#### 产品检验标准/ Product Inspection Standard

- 1.CCS《船舶与海上设施起重设备规范》（2007）  
CCS Rules for Lifting Appliances of Ships and Offshore Installations 2007
- 2.中国船级社《材料与焊接规范》（2006）及其修改通报第3篇第5章  
Chapter 5 of Part 3 of CCS Rules for Materials and Welding（2006）and its Amendments

#### 产品检验标志/Marking

位置/Position : 03

标志样式/ Type of Marking :

发证日期 2010年3月23日  
Date of issue Mar. 23, 2010

验船师 刘林 Liu Lin  
Surveyor

本证书根据中国船级社《钢质海船入级规范》及有关程序规定签发。关于证书的有关规定见本证书背面的说明。当本证书包括多页纸张时，则所有证书页为一个整体，必须同时使用。每一页证书均须由本社盖章方为有效，证书复印件无效。任何单位和个人均不应摘录或节选本证书的部分内容。本认可证书不代表本社对个体产品质量的检验。有关各方对所持证书的真实性有疑问时，可以向本社检验机构咨询。  
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中国船级社总部/CCS headquarters: 北京市东直门南大街9号船检大厦 邮编: 100007 电话/Tel: +86(10)58112288 传真/Fax: +86(10)58112811  
CCS Mansion, 9 Dongzhimen Nan Da Jie, Beijing 100007, China 网址/Web Site: http://www.ccs.org.cn

本地检验机构/CCS Local Office: 中国船级社伦敦办事处 CCS London Office 电话/Tel: 0044-020-76635628 传真/Fax: 0044-020-76635824

LD78969371

Nº 10308722

**产品明细/ Product Description**

起重机基座/Crane Foundation	
产品名称/Title	: 1-Rolled & welded Kingpost
型号/Model	: Model S10832
产品编号/Serial No.	: 41452
图号/Drawing No.	: 41452-WD-001
数量/Quantity	: 1

**产品检验方式/ Method of Product Inspection**

按照规范逐件检验的产品/The product inspected one by one in term of the rules:  
 本证书所述产品由本社验船师根据本社规范规定逐件按批准的产品检验计划进行检验, 并在检验合格后颁发产品证书。  
 The products described in the certificate have been inspected one by one by the Surveyor of the Society in accordance with the approved product inspection scheme, and the Product Certificate is issued upon satisfactory inspection.

**原材料和零部件的检验/ Inspection of Material and Components**

该产品的如下原材料/零部件业经本社检验 The following materials and components of the product were inspected by the Society:Nil.

**责任声明/ Statement of Responsibility**

本社的检验不影响、替代与本社授权或检验无关的各方对上述工厂的认可和发证, 并且不对与本社授权或检验无关的各方负责, 不承担其未经应允而承认、接受本社检验所导致的法律和经济责任。  
 The inspection of the Society does not affect and replace any approval and certification of the manufacturer by any parties that bear no relation with this Society's authorization or survey and therefore takes no responsibility for these parties. The Society does not undertake any legal and economic liabilities arising from accepting this Society's certificate without prior permission from this Society.

**其他/Others**

中国船级社伦敦办事处

CCS London Office



\*\*\*\*\*本证书正文完/ End of Text\*\*\*\*\*





中国船级社  
CHINA CLASSIFICATION SOCIETY  
产品证书  
CERTIFICATE OF PRODUCT

证书格式号/Form: P01.01-  
HQ002108

证书编号/Certificate No. LD09P00480

兹证明应 Seatrax, Inc. 的申请，  
下列产品经本社署名验船师检验，符合本证书注明标准的要求。

**This is to certify that, upon request of**  
Seatrax, Inc.

the following products have been inspected by the undersigned surveyor to the Society and are found to comply with the requirements of the specified standards.

制造厂名 Teufelberger SEIL Ges.m.b.H.

Manufacturer Teufelberger SEIL Ges.m.b.H.

订货方 Seatrax, Inc.

Purchaser Seatrax, Inc.

产品名称 钢丝绳

Product Steel Wire Ropes

认可证书号/Cert. No. of Approval: Nil. 图纸批准号/Approval No. of drawings: Nil.

用于 CNOOC Oil Base Group Ltd-Supervision&Technology Company, Hull No. :HYSY298 barge

产品使用限定 Marine

产品编号 76993,76992,76994

产品检验标准/ Product Inspection Standard

1.CCS《材料与焊接规范》(2006)及其2007修改通报第1篇,第10章,第4节  
Section 4, Chapter 10, Part 1 of CCS Rules for Materials and Welding 2006, and its 2007 Amendments

产品检验标志/Marking

位置/Position : 中国船级社

标志样式/ Type of Marking : 03

发证日期 2010年3月23日

Date of issue Mar. 23, 2010

验船师 刘林

Surveyor Liu Lin

本证书根据中国船级社《钢质海船入级规范》及有关程序规定签发。关于证书的有关规定见本证书背面的说明。当本证书包括多页纸张时,则所有证书页为一个整体,必须同时使用。每一页证书均须由本社盖章方为有效。证书复印件无效。任何单位和个人均不应摘录或节选本证书的部分内容。本认可证书不代表本社对个体产品质量的检验。有关各方对所持证书的真实性有疑问时,可以向本社检验机构咨询。  
This Certificate is issued pursuant to the Rules for Classification of Sea-going Steel Ships and related procedures of the Society. Refer to the back of the certificate for detailed requirements of the certificate. When the certificate consists of more than one page, all pages of the certificate are taken as a whole and are used simultaneously. No certificate page is valid without bearing the stamp of the Society and no copied form of the certificate is regarded as valid. Any part of the certificate is not to be extracted or abridged by any unit or individual in any form. This approval certificate does not constitute the inspection of the Society about the quality of the unit/batch product. Related parties who are doubted about the authenticity of the certificate may inquire of the Society or its offices.



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LD37039616

Nº 10308723

**产品明细/ Product Description**

镀锌钢丝绳/Galvanized Steel Wire Rope 名称/Name	: Aux Hoist Rope:TK16EVO 3BQ V; Main Hoist Rope:TK16EVO 3DQ V; Boom Hoist Rope:QS816V 3AQ V
强度等级/Grade of tensile strength	: Aux Hoist Rope:1960 N/sq. m. m. ; Main Hoist Rope;1960 N/sq. m. m. ; Boom Hoist Rope;1960 N/sq. m. m. MPa
绳径/Dia. of wire rope	: Aux Hoist Rope:38.00mm; Main Hoist Rope:32.00mm; Boom Hoist Rope:32.00mm
长度/Length	: Aux Hoist Rope:139 m; Main Hoist Rope:775m; Boom Hoist Rope:779m
破断负荷/Breaking load	: Aux Hoist Rope:1405kN(Actual); Main Hoist Rope;1075kN(Actual); Boom Hoist Rope;1185(Actual) kN

**产品检验方式/ Method of Product Inspection**

按照规范逐件检验的产品/The product inspected one by one in term of the rules;  
本证书所述产品由本社验船师根据本社规范规定逐件按批准的产品检验计划进行检验，并在检验合格后颁发产品证书。  
The products described in the certificate have been inspected one by one by the Surveyor of the Society in accordance with the approved product inspection scheme, and the Product Certificate is issued upon satisfactory inspection.

**原材料和零部件的检验/ Inspection of Material and Components**

该产品的如下原材料/零部件业经本社检验 The following materials and components of the product were inspected by the Society:Nil.

**责任声明/Statement of Responsibility**

本社的检验不影响、替代与本社授权或检验无关的各方对上述工厂的认可和发证，并且不对与本社授权或检验无关的各方负责，不承担其未经应允而承认、接受本社检验所导致的法律和经济责任。  
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**其他/Others**

中国船级社伦敦办事处

CCS London Office

\*\*\*\*\*本证书正文完/ End of Text\*\*\*\*\*



中国船级社  
CHINA CLASSIFICATION SOCIETY  
产品证书  
CERTIFICATE OF PRODUCT

证书格式号/Form: P01.01-  
HQ001918

证书编号/Certificate No. LD09P00481

兹证明应 Seatrax, Inc. 的申请，  
下列产品经本社署名验船师检验，符合本证书注明标准的要求。

**This is to certify that, upon request of**  
Seatrax, Inc.

the following products have been inspected by the undersigned surveyor to the Society and are found to comply with the requirements of the specified standards.

制造厂名 Seatrax, Inc.

Manufacturer Seatrax, Inc.

订货方 Nil.

Purchaser Nil.

产品名称 Aux Block

Product Aux Block

认可证书号/Cert. No. of Approval: Nil. 图纸批准号/Approval No. of drawings: Nil.

用于  
Intended for CNOOC Oil Base Group Ltd-Supervision&Technology Company, Hull No. :HYSY298 barge

产品使用限定  
Restriction for application of product Marine

产品编号  
SerialNo. 5370-017-4573

**产品检验标准/ Product Inspection Standard**

- 1.本社《船舶与海上设施起重设备规范》(2001)  
CCS RULES FOR LIFTING APPLIANCES OF SHIP AND OFFSHORE INSTALLATIONS(2001)
- 2.本社《材料与焊接规范》(1998)及其修改通报(2001/2003)  
CCS RULES FOR MATERIALS AND WELDING(1998) AND ITS AMENDMENT(2001/2003)

**产品检验标志/Marking**

位置/Position

标志样式/ Type of Marking :

发证日期 2010年3月23日  
Date of issue Mar. 23, 2010

验船师 刘林 Liu Lin  
Surveyor

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LD93556426

Nº 10308724

**产品明细/ Product Description**

起货吊钩滑车/Block with cargo hook	
产品名称/Specification	: AUX BLOCK
安全工作负荷/S. W. L.	: 25877Kg
试验负荷/Test load	: 51754Kg
试验日期/Date of test	: 2009-11-9

**产品检验方式/ Method of Product Inspection**

按照规范逐件检验的产品/The product inspected one by one in term of the rules:  
 本证书所述产品由本社验船师根据本社规范规定逐件按批准的产品检验计划进行检验, 并在检验合格后颁发产品证书。

The products described in the certificate have been inspected one by one by the Surveyor of the Society in accordance with the approved product inspection scheme, and the Product Certificate is issued upon satisfactory inspection.

**原材料和零部件的检验/ Inspection of Material and Components**

该产品的如下原材料/零部件业经本社检验 The following materials and components of the product were inspected by the Society:Nil.

**责任声明/ Statement of Responsibility**

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**其他/Others**

Components of Block when tested:

1 off Seatrax Eye Type Sling Hook Serial Number 12590  
 1 off 38mm dia Wire Rope with Crosby Open Spelter Socket Each End, Serial Number 261804/1  
 1 off Crosby Eye and Eye Swivel, Serial Number 302/5  
 2 x 63mm dia pins, 270mm long, Serial Number 302/1+2  
 1 x 63mm dia pin, 350mm long, Serial Number 302/3  
 1 x 13/8-1.5" Crosby Wedge Socket, Serial Number 302/4

中国船级社伦敦办事处

CCS London Office

\*\*\*\*\*本证书正文完/ End of Text\*\*\*\*\*





中国船级社  
CHINA CLASSIFICATION SOCIETY  
产品证书  
CERTIFICATE OF PRODUCT

证书格式号/Form: P01.01-  
HQ001184

证书编号/Certificate No. LD09P00482

兹证明应 Seatrax, Inc. 的申请,

下列产品经本社署名验船师检验, 符合本证书注明标准的要求。

**This is to certify that, upon request of**

Seatrax, Inc.

the following products have been inspected by the undersigned surveyor to the Society and are found to comply with the requirements of the specified standards.

制造厂名 Seatrax, Inc.

Manufacturer Seatrax, Inc.

订货方 Nil.

Purchaser Nil.

产品名称 绞车

Product WINCH

认可证书号/Cert. No. of Approval: Nil. 图纸批准号/Approval No. of drawings: Nil.

用于

Intended for CNOOC Oil Base Group Ltd-Supervision&Technology Company, Hull No.: HYSY298 barge

产品使用限定

Restriction for application of product Marine

产品编号

SerialNo. 22KS,22KS,4573

**产品检验标准/ Product Inspection Standard**

1. 申请方提供的技术条件

Technical Specification Submitted by the Applicant

**产品检验标志/Marking**

位置/Position

标志样式/ Type of Marking

发证日期 2010年3月23日

Date of issue Mar. 23, 2010

验船师

Surveyor

刘林

Liu Lin

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LD26535523  
Nº 10308725

**产品明细/ Product Description**

绞车/WINCH  
产品型号/Model

: Main Drum:L1000E11;  
Auxiliary Drum:M1000E15;  
Boom Drum:S1000E10;  
Tugger Hoist:BR125-01

额定气压/Rated Pressure

: Main Drum:5200psi;  
Auxiliary Drum:5200psi;  
Boom Drum:5200psi;  
Tugger Hoist:2500psi

卷筒直径/Drum diameter

: Main Drum:23in;  
Auxiliary Drum:26in;  
Boom Drum:26in  
Tugger Hoist Drum:12.8in  
mm

额定牵引力/Rated Line Pull

: Main Drum:99750lbs.;  
Auxiliary Drum:65922lbs.;  
Boom Drum:90288lbs;  
Tugger Hoist:15,338lbs

额定/轻载速度（第一层）/Rated/Light Load Speed(1th layer)

: Main Drum:161fpm;  
Auxiliary Drum:262fpm;  
Boom Drum:192fpm;  
Tugger Hoist:139fpm m/min

**产品检验方式/ Method of Product Inspection**

按照规范逐件检验的产品/The product inspected one by one in term of the rules:  
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**原材料和零部件的检验/ Inspection of Material and Components**

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**责任声明/ Statement of Responsibility**

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**其他/Others**

中国船级社伦敦办事处

CCS London Office

\*\*\*\*\*本证书正文完/ End of Text\*\*\*\*\*





中国船级社  
CHINA CLASSIFICATION SOCIETY  
产品证书  
CERTIFICATE OF PRODUCT

证书格式号/Form: P01.01-  
HQ001918

证书编号/Certificate No. LD09P00496

兹证明应 Seatrax, Inc. 的申请，  
下列产品经本社署名验船师检验，符合本证书注明标准的要求。

**This is to certify that, upon request of**  
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the following products have been inspected by the undersigned surveyor to the Society and are found to comply with the requirements of the specified standards.

制造厂名 Seatrax, Inc.

Manufacturer Seatrax, Inc.

订货方 CNOOC Oil Base Group Ltd.

Purchaser CNOOC Oil Base Group Ltd.

产品名称 SHEAVE CRANE BLOCK

Product SHEAVE CRANE BLOCK

认可证书号/Cert. No. of Approval: Nil. 图纸批准号/Approval No. of drawings: Nil.

用于  
Intended for CNOOC Oil Base Group Ltd-Supervision&Technology Company, Hull No. :HYSY298 barge

产品使用限定  
Restriction for application of product Marine

产品编号  
SerialNo. See below

**产品检验标准/ Product Inspection Standard**

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CCS RULES FOR LIFTING APPLIANCES OF SHIP AND OFFSHORE INSTALLATIONS(2001)
- 2.本社《材料与焊接规范》(1998)及其修改通报(2001/2003)  
CCS RULES FOR MATERIALS AND WELDING(1998) AND ITS AMENDMENT(2001/2003)

**产品检验标志/Marking**

位置/Position

标志样式/ Type of Marking :

发证日期 2010年3月23日

Date of issue Mar. 23, 2010

验船师

Surveyor

刘林

Liu Lin

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CCS Mansion, 9 Dongzhimen Nan Da Jie, Beijing 100007, China 网址/Web Site: <http://www.ccs.org.cn>  
本地检验机构/CCS Local Office: 中国船级社伦敦办事处 CCS London Office 电话/TeL: 0044-020-76635628 传真/Fax: 0044-020-76635824

LD18909381  
No. 10308726

**产品明细/ Product Description**

吊钩组件	
部件名称/Name of part	: Six Sheave Crane Block
部件材料/Material	: A106B/S355J2+N/355EMZ
无损探伤/Non-destructive test	: 100% Magnetic Particle Inspection (MPI)
安全工作负荷/S.W.L.	: 554619LBS with 250 tons
适用钢索直径/Dia. of Applicable Steel Wire Rope	: 32MM
试验负荷/Test load	: 831929 Ibs(371 Imperial TON)
试验日期/Date of test	: 2009-11-11
数量/Quantity	: 1

**产品检验方式/ Method of Product Inspection**

按照规范逐件检验的产品/The product inspected one by one in term of the rules:  
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**原材料和零部件的检验/ Inspection of Material and Components**

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**其他/Others**

中国船级社伦敦办事处

CCS London Office

\*\*\*\*\*本证书正文完/ End of Text\*\*\*\*\*

