



中国船级社  
CHINA CLASSIFICATION SOCIETY

证书编号/Certificate No.  
LT21PTB00001

型式认可证书  
CERTIFICATE OF TYPE APPROVAL

兹证明本证书所述制造厂具备按照下列标准的要求生产本证书所列产品的能力和条件。

This is to certify that the manufacturer stated in the certificate meets the requirements of the standards listed below and is available with the ability and conditions to produce the products described in the certificate.

制造厂/Manufacturer

VAF Instruments B.V.

地址/Address

Vierlinghstraat 24,3316EL Dordrecht,The Netherlands

产品名称/Product

防油污设备  
Oil Pollution Prevention Equipment  
排油监控系统  
Oil Discharge Monitoring and Control System

认可标准/Approval Standard

1. 国际海事组织《73/78 防污公约》附则I  
Annex I of IMO MARPOL 73/78
2. MEPC. 108 (49) 决议《修订的油船排油监控系统指南和技术条件》  
RESOLUTION MEPC.108(49)"REVISED GUIDELINES AND SPECIFICATES FOR OIL DISCHARGE MONITORING AND CONTROL SYSTEMS FOR PIL TANKERS
3. 国际海事组织环保会决议 MEPC. 240 (65) 《经修订的油船排油监控系统指南和技术条件（环保会MEPC. 108 (49) 决议）2013年修正案》  
IMO Resolution MEPC.240(65) 2013 Amendments to the Revised Guidelines and Specifications for Oil Discharge Monitoring and Control Systems for Oil Tankers (Resolution MEPC.108(49))

用于/Intended for

船舶与海上设施/Ships and Offshore Installations

证书有效期至/This Certificate is valid until 2025年02月17日/ Feb. 17,2025

发证机构 中国船级社鹿特丹办事处 签发日期 2021年03月09日  
Issued by CCS Rotterdam Office Date Mar. 09,2021

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Form No: T01.

联系方式/Contact Us, 见本社官方网站/See official web site of the Society (<http://www.ccs.org.cn>)

UTN:P021-71795046



**产品明细/Product Description****排油监控系统/Oil Discharge Monitoring and Control System (M0001)**

名称/Name	属性(值)/Value	单位/Unit
型号/Type	Oilcon Mark 6M	
电源/Power Source	380/480 VAC 3 phase 50/60 Hz, 115/230 VAC 1 phase 50/60 Hz, 24VDC main supply and backup (source independent from source main supply) for MCU.	
测量范围/Measure Range	0-1000 ppm	
测量精度/Depth Precision	In accordance with IMO Resolution MEPC.108(49) and MEPC.240(65)	

**批准的图纸/Approved Drawings**

图纸批准号/ Drawings Approval No. : NP15A00823, NP17A00305, NP19PPP00720

**产品认可试验报告/ Approval Test Report**

试验报告编号/ Test Report No. : 2147179.0502  
 试验报告日期/ Test Report Date : 2012-01-26  
 试验单位/ Laboratory: DEKRA Certification B.V.  
 试验单位地址/ Test Address: Utrechtseweg 310, 6812AR Arnhem, the Netherlands

试验报告编号/ Test Report No. : Appendix II to report 104\_254598  
 试验报告日期/ Test Report Date : 2014-11-11  
 试验单位/ Laboratory: SGS Institut Fresenius GmbH  
 试验单位地址/ Test Address: Im Maisel 14, D-65232, Taunusstein, Germany

试验报告编号/ Test Report No. : 170302M  
 试验报告日期/ Test Report Date : 2017-03-15  
 试验单位/ Laboratory: VAF Instruments  
 试验单位地址/ Test Address: Vierlinghstraat 24, 3316EL Dordrecht, the Netherlands

试验报告编号/ Test Report No. : 104\_254598  
 试验报告日期/ Test Report Date : 2004-12-20  
 试验单位/ Laboratory: Institut Fresenius AG  
 试验单位地址/ Test Address: Im Maisel 14, 65232 Taunusstein, Germany

试验报告编号/ Test Report No. : 01-09-2001 Rev.D(Summary of results)  
 试验报告日期/ Test Report Date : 2004-12-22  
 试验单位/ Laboratory: VAF Instruments  
 试验单位地址/ Test Address: Vierlinghstraat 24, 3316EL Dordrecht, the Netherlands

试验报告编号/ Test Report No. : 03C00259RPT01  
 试验报告日期/ Test Report Date : 2003-04-07  
 试验单位/ Laboratory: Dijkstra Advies, Research EMC Consultance B.V.  
 试验单位地址/ Test Address: Vijzelmolenlaan 7, 3447GX Woerden, the Netherlands

试验报告编号/ Test Report No. : VAF test report  
 试验报告日期/ Test Report Date : 2019-12-03  
 试验单位/ Laboratory: VAF Instruments  
 试验单位地址/ Test Address: Vierlinghstraat 24, 3316EL Dordrecht, the Netherlands

试验报告编号/ Test Report No. : KEMA 03ATEX1187 X  
 试验报告日期/ Test Report Date : 2003-05-26  
 试验单位/ Laboratory: KEMA Quality B.V.  
 试验单位地址/ Test Address: Utrechtseweg 310, 6812AR Arnhem, the Netherlands

试验报告编号/ Test Report No. : 0206-0088  
 试验报告日期/ Test Report Date : 2012-01-31  
 试验单位/ Laboratory: VAF Instruments  
 试验单位地址/ Test Address: Vierlinghstraat 24, 3316EL Dordrecht, the Netherlands



试验报告编号/ Test Report No. : 2147179.0501-EMC  
 试验报告日期/ Test Report Date : 2012-01-26  
 试验单位/ Laboratory: DEKRA Certification B.V.  
 试验单位地址/ Test Address: Utrechtseweg 310, 6812AR Arnhem, the Netherlands

试验报告编号/ Test Report No. : 18C00636RPT01  
 试验报告日期/ Test Report Date : 2018-09-26  
 试验单位/ Laboratory: Dare!! Measurements  
 试验单位地址/ Test Address: Vijzelmolenlaan 7, 3447 GX Woerden, the Netherlands

试验报告编号/ Test Report No. : M18.001-P18.001  
 试验报告日期/ Test Report Date : 2018-08-17  
 试验单位/ Laboratory: Sebert Trillingstechniek B.V.  
 试验单位地址/ Test Address: Weg en land 18, 2661 DB Bergschenhoek, the Netherlands

试验报告编号/ Test Report No. : M18.003-P18.002  
 试验报告日期/ Test Report Date : 2018-10-08  
 试验单位/ Laboratory: Sebert Trillingstechniek B.V.  
 试验单位地址/ Test Address: Weg en land 18, 2661 DB Bergschenhoek, the Netherlands

试验报告编号/ Test Report No. : 2003-CMC-R008  
 试验报告日期/ Test Report Date : 2003-01-29  
 试验单位/ Laboratory: TNO Building and Construction Research  
 试验单位地址/ Test Address: van Mourik Broekmanweg 6, 2600AA Delft, the Netherlands

### 认可后的产品检验方式/ Method of Product Inspection after Approval

按规范认可后应进行产品检验的产品/The product should be inspected 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船用产品证书。

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

### 认可保持条件/ Maintenance Requirements of Approval

1. 型式认可后, 如果产品及其重要零部件的设计、所用材料或制造方法有所改变, 且影响到产品的主要特性、特征; 或产品的性能指标有所更改, 且超过认可的范围, 则有关图纸和文件应经检验机构审批。并在检验机构认为必要时, 经本社检验人员见证有关试验和进行检查, 其结果应能证实仍符合认可条件。

After type approval, if there are changes to the design, materials used or manufacturing method of the product and important components and such changes affect major characteristics and properties of the product, or property indexes of the product are changed and exceed the scope of approval, related drawings and documents are to be examined and approved by the concerned survey office. Where deemed necessary by the survey office, the surveyor to the Society will go to witness relevant tests and conduct inspection and the results should be able to demonstrate compliance with the approval conditions.

2. 工厂的质量管理体系应保持有效运行, 并且与认可时一致。如果质量管理体系发生改变, 应经原体系认证机构审核并报本社批准。

The quality management system of the factory shall be ensure effective operation, and shall be the same as the situation of approval. If there are any changes to the quality management system, auditing of the original certification organization for quality management system and the society's approval shall be obtained.

3. 认可证书有效期内, 如果出现可能导致本社取消认可的情况, 工厂应及时采取有效的纠正措施。

Within the validity of the approval certificate, if cases occur that may cause the Society to withdraw the approval, the manufacturer should take corrective actions in a prompt and effective manner.

4. 在认可证书有效期内, 本社检验人员可在未经事先通知的情况下对工厂的产品制造过程进行审核, 以验证产品的生产是否符合业经本社批准的图纸和文件。工厂应予以配合。

Within the validity of the approval certificate, the surveyor to the Society may pay unannounced audit to the manufacturing process of the product in order to confirm whether it is in compliance with the drawings and documents approved by the Society. The factory should provide an active cooperation and necessary for the surveyor.

5. 如果属于获得型式认可B模式证书, 且无需颁发船用产品证书/等效证明文件的情况, 证书获得者应接受本社每年一次的定期审核。定期审核日为认可证书期满之日对应的每一周年日, 检查工作应在周年日的前后三个月内进行。

If belong to the situation of the product has type approval mode B certificate, and marine product certificate/equivalent document is not necessary, those who have obtained the certificate should be



subject to periodical audit every year. The date of periodical audit shall be each anniversary date which corresponds to the date of expiry of the relevant certificate and the periodical audit shall be done within a time span of three months before and after the annual surveillance date.

**备注/Remarks**

本证书由原型式认可证书 (No. LT19PTB00004) 换新并替代原证书。  
This Certificate is renewed from and supersedes the previous Type Approval Certificate No. LT19PTB00004.

本社已审核了产品厂无石棉声明, 但本社的审核不免除产品厂按照合同关系向订货方保证产品无石棉的责任。  
The declaration of asbestos-free submitted by manufacturer has been reviewed by the Society.  
However, liability of the manufacturer to guarantee the products are asbestos-free to purchaser under contract will not be exempted.

The system mainly consists of the following components:

- Main Control Unit (MCU)
- Skid containing the measuring cell
- Sampling Pump
- Starter Box
- Sample Valve
- Sample Probe
- Electro Pneumatic Unit (EPU)
- Pressure Regulating Valve
- Automatically Controlled Valve
- Orifice Plate

\* Parts are interchangeable with older model Oilcon Mark 6M.

**APPLICATIONS/LIMITATIONS:**

This Type Approval covers system design principle and installation on board with regards to fire and explosion hazard, as well as performance. Arrangement drawing and certificate for intrinsically safe equipment is to be submitted for each installation. Inspection of intrinsically safety is to be carried out upon installation on board.

The Oil Content Meter is tested and approved according to IMO Res. MEPC.108(49) and MEPC.240(65) for:

- Crude oils
- "Black" and "White" products
- Individual Bio-Fuel Blends and Concentrations as listed below:
  - Bio-Fuel blend of Diesel/gas oil and Vegetable oil (25% Vegetable oil+75% Diesel fuel),
  - Bio-Fuel blend of Diesel/gas oil and Vegetable oil (1% Vegetable oil+99% Diesel fuel),
  - Bio-Fuel blend of Diesel/gas oil and Alkanes(C10-C26) linear and branched with flashpoint>60°C (25% GTL-Diesel+75% Diesel fuel),
  - Bio-Fuel blend of Diesel/gas oil and Alkanes(C10-C26) linear and branched with flashpoint>60°C (1% GTL-Diesel+99% Diesel fuel),
  - Bio-Fuel blend of Diesel/gas oil and Alkanes(C10-C26) linear and branched with flashpoint<60°C (25% GTL-Diesel+75% Kerosene),
  - Bio-Fuel blend of Diesel/gas oil and Alkanes(C10-C26) linear and branched with flashpoint<60°C (1% GTL-Diesel+99% Kerosene),
  - Bio-Fuel blend of Gasoline oil and Ethyl alcohol (25% Bio-Ethanol +75% Petrol),
  - Bio-Fuel blend of Gasoline oil and Ethyl alcohol (1% Bio-Ethanol +99% Petrol),
  - Bio-Fuel blend of Diesel/gas oil and FAME (25% FAME+75% Diesel fuel),
  - Bio-Fuel blend of Diesel/gas oil and FAME (1% FAME+99% Diesel fuel).

中国船级社鹿特丹办事处  
CCS Rotterdam Office

