



Confirmation of Product Type Approval

Company Name: CHANGZHOU LUO PAN XING ANALYTICAL TECH CO, LTD

Address: 6TH FLOOR, A3 BUILDING, TECHNOLOGY VENTURE CENTER, 801 CHANGWU MIDDLE ROAD 213164 China

Product: Monitoring System, Emissions

Model(s): WWM-1000

Certificate Type	Certificate Number	Issue Date	Expiry Date
Product Design Assessment (PDA)	19-DL1929305-PDA	02-DEC-2019	02-DEC-2024
Manufacturing Assessment (MA)	19-NJ3731974	25-SEP-2019	24-SEP-2024
Product Quality Assurance (PQA)	NA	NA	NA

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Intended Service

Washing water monitoring system for exhaust gas emission control.

Description

Wash water monitoring device for PAH, PH, Turbidity and Temperature.

Ratings

Electric power supply: AC 220V, 50 Hz

Working pressure: 0.2-0.4 MPa

Working temperature: 0-55 Deg.C

Degree of enclosure: IP 54

Measuring Range:

PAH: 0-500 µg/L

Turbidity: 0-200 NTU

PH: 0-14PH

Service Restrictions

Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

Comments

1. The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.
2. Each particular application and installation is to be specifically approved in conjunction with the relevant system. Equipment is not to be installed in weather exposed areas.
3. Unless specially directed by the Administration, this approval is not to be construed as a substitute for a flag Administration's approval.
4. This certificate only covers hardware part.
5. The minimum degree of enclosure of equipment is to be complied with 4-8-3/Table 2 of Marine Vessels Rules. Evidence is to be submitted to attending surveyors before installation. See 4-8-4/1.3 of ABS Marine Vessels Rules.

Notes, Drawings and Documentation

Drawing No. LPX-WMS, Wash Water Monitoring System, Revision: -, Pages: -

Drawing No. NA-2, Bill of Material, Revision: -, Pages: -

Drawing No. NA-4, Function Instruction of WWMS, Revision: -, Pages: -

Drawing No. WWM-1000, Operation Manual, Revision: -, Pages: -

Drawing No. UL119920190918001, TEST REPORT, Revision: -, Pages: -

Test Lab: Unilab (Shanghai) Testing Technology Co., Ltd

Report No. and date: UL1199201918001, 8 Nov 2019

Term of Validity

This Product Design Assessment (PDA) Certificate remains valid until 02/Dec/2024 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

ABS Rules

1-1-4/7.7, 1-1-A3, 1-1-A4, 4-1-1/Table 3, 4-9-3/11, 4-9-9/Table 1 of Marine Vessels Rules 2019

International Standards

MEPC. 259 (68) - 2015 Guidelines for Exhaust Gas Cleaning Systems

EU-MED Standards

NA

National Standards

NA

Government Standards

NA

Other Standards

NA



A handwritten signature in black ink, appearing to read "James W. White".

Corporate ABS Programs
American Bureau of Shipping
Print Date and Time: 03-Dec-2019 1:42

ABS has used due diligence in the preparation of this certificate, and it represents the information on the product in the ABS Records as of the date and time the certificate is printed.

If the Rules and/or standards used in the PDA evaluation are revised or if there is a design modification (whichever occurs first), a PDA revalidation may be necessary.

The continued validity of the MA is dependent on completion of satisfactory audits as required by the ABS Rules. The validity of both PDA and MA entitles the product to receive a **Confirmation of Product Type Approval**.

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or prior to the effective date of the ABS Rules and standards applied at the time of PDA issuance. ABS makes no representations regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. The manufacturer is responsible to maintain compliance with all specifications applicable to the product design assessment. Unless specifically indicated in the description of the product, certification under type approval does not waive requirements for witnessed inspection or additional survey for product use on a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.