

Work Order: 4819696-A
First Visit Date: 15-Jun-2021
Last Visit Date: 18-Jun-2021

Survey Location: Piracicaba, SP, Brazil

# **Equipment Certification Report**

Asset Type Pump

Customer Name EB INDUSTRIA E COMERCIO DE BOMBAS E FUNDIDOS EIRELI

WCN of Customer 469354

Location Piracicaba, SP, Brazil

This is to certify that the undersigned Surveyors to this Bureau did at the request of EB INDUSTRIA E COMERCIO DE BOMBAS E FUNDIDOS EIRELI, from 15-Jun-2021 to 18-Jun-2021, carry out the following survey and report as follows:

Client Asset Name Quantity

Vertical Fire Pump 1

Name Plate Data

ABS Label Manufacturer Purchaser Designer Destination Vessel

Vertical Fire EB INDUSTRIA E COMERCIO DE - EB INDUSTRIA E COMERCIO DE PLATAFORMA BOMBAS E FUNDIDOS EIRELI BOMBAS E FUNDIDOS EIRELI

**Basic Identification Data** 

Serial Number Model Number Owner Tag Number Supplier Ref. Number

OP-5109 18DEB/3 + 1

**Report Details** 

ABS Stamping Maltese Cross

4819696 Yes

**Design Details** 

Design state Drawing Number Rule Set Name Rule Set Version

Design Review Not Required 101-005-0001 Rev.1 Rules for Building and Classing Mobile Offshore Units 2021

**Additional Data** 

Driving FluidSea WaterPressure Head115 mPump Capacity700 Cu m/hr

Pump Type CentrifugalRated Speed 1720 rpm

#### Statement of Work - Classification Service - Certification -

- Asbestos-free declaration verified and supporting documentation reviewed.
- Subject to satisfactory installation, testing and trials after installation onboard the vessel.
- The principal data has been verified in accordance with the applicable Rules/specifications and applicable approved plans, and confirmed to be within acceptable tolerances.
- All testing (pressure/load/operational/etc.) has been carried out as applicable and verified in accordance with the applicable Rules/ specifications.

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NOTE: This Report evidences that the survey reported herein was carried out in compliance with one or more of the Rules, guides, standards or other criteria of the American Bureau of Shipping and is issued solely for the use of the Bureau, its committees, its clients or other authorized entities. This Report is a representation only that the vessel, structure, item of material equipment, machinery or any other item covered by this Report has been examined for compliance with, or has met one or more of the Rules, guides, standards or other criteria of American Bureau of Shipping. The validity, applicability and interpretation of this Report is governed by the Rules and standards of American Bureau of Shipping who shall remain the sole judge thereof. Nothing contained in this Report or in any notation made in contemplation of this Report shall be deemed to relieve any designer, builder, owner, manufacturer, seller, supplier, repairer, operator or other entity of any warranty express or implied.



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# Report Findings Statement/Observation

Finding No	Asset	Survey Task	Date Created
2.0	-	Certification - Vertical Fire Pump	18-Jun-2021

#### Found

## **Equipment Description**

One (01) Vertical Fire Pump as per above referenced manufacturer's drawing and design parameters indicated below:

Pump Capacity: 700 m³/h
Pressure Head: 115 m
Rated Speed: 1720 RPM
Design Pressure: 16.5 kgf/cm²

Hydrostatic Test Pressure: 25 kgf/cm²

· Driving Fluid: Sea Water

#### **Survey Summary**

The following tests were witnessed and found satisfactory in accordance with ABS Rules:

- Hydrostatic test
- Capacity test: carried out as per manufacturer's test procedure no. IT-101 Rev.02 including verification of pump characteristic (head-capacity) design curve

### **ABS Stamping**

Applied on the following locations:

- 1. Pump's nameplate containing tag and serial number
- 2. Pump's upper gearbox flange, near the permanent marking indicating manufacturer's name, the model number of the pump, and its capacity
- 3. Pump's lower head flange, near the permanent marking indicating manufacturer's name, the model number of the pump, and its capacity In addition, the ABS "AB" marking was applied on the other pressurized components that were subjected to the hydrostatic test.

#### **Closing Paragraph:**

The component/equipment was surveyed in accordance with the Rules, specifications, and approved drawings, as applicable, and is eligible for installation on board an ABS classed vessel subject to satisfactory installation and testing, as necessary.

# Attending Surveyor(s):

Da Silva, Joao Renato Signed-off Date: 18-Jun-2021

## Reviewing Surveyor(s)

Work Order Reviewer: Akamatsu, Felipe Shinji (Felipe Akamatsu)
Work Order Credit Date: 20-Jun-2021