



Work Order: 5769672-A  
First Visit Date: 30-Mar-2023  
Last Visit Date: 08-May-2023  
Vendor PO Number: 120477, 124994 and 124978  
Survey Location: Oslo

## Equipment Certification Report

**Asset Type** Pipe Fitting  
**Customer Name** SKIPPER ELECTRONICS A/S  
**WCN of Customer** 500646  
**Location** Oslo

This is to certify that the undersigned Surveyors to this Bureau did at the request of SKIPPER ELECTRONICS A/S, from 30-Mar-2023 to 08-May-2023, carry out the following survey and report as follows:

### Client Asset Name Quantity

Set of Two (2) Transducer Tanks 1

### Name Plate Data

ABS Label	Manufacturer	Purchaser	Designer	Destination Vessel	Spare
Set of Two (2) Transducer Tanks	SKIPPER ELECTRONICS A/S	-	SKIPPER ELECTRONICS A/S	-	Yes

### Basic Identification Data

Serial Number	Model Number	Owner Tag Number	Supplier Ref. Number
-	ETNST	-	-

### Report Details

#### ABS Stamping Maltese Cross

5769672 Yes

### Design Details

Design state	Project Number	Reviewing Organization	Rule Set Name	Rule Set Version
Product Design Assessed	22-2241511-PDA	London Engineering Department	Rules for Building and Classing Marine Vessels	2023

### Additional Data

Test Pressure 5 bar

## Statement of Work - Classification Service - Certification -

- Plan review and/or Product Design Assessment (PDA) has identified design restrictions and/or limitations which are to be referenced upon installation onboard the vessel.
- Company has provided a declaration of conformity as required by International Maritime Organization (IMO) Resolution MSC.282(86), adopting SOLAS Reg. II-1/3-5.2, and the IMO MODU Code 2009, the aforementioned product or design does not contain any form of asbestos.
- Testing machines are maintained in a satisfactory condition and records of their recheck or calibration dates confirmed.
- Dimensions and tolerances were verified as required by the design approval.
- NDE and hardness testing was conducted in accordance with approved specification and found to be the satisfaction of the attending Surveyor.

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.

- Rule required testing (pressure/load/operational/proof-load/etc.) of the equipment/component was witnessed to the satisfaction of the attending Surveyor.
- Subject to satisfactory installation, testing and trials after installation onboard the vessel.
- Material test reports (MTR) were reviewed and found to be the satisfaction of the attending Surveyor. Where required by the Rules, ABS material certification reports have been verified.
- Major weldments were examined prior to welding as necessary.
- Welding procedure specifications and welder qualifications were reviewed and found to be satisfactory to attending ABS Surveyor. Final welding was examined upon completion.

## Report Findings

### Statement/Observation

<i>Finding No</i>	<i>Asset</i>	<i>Survey Task</i>	<i>Date Created</i>
219.0	Set of Two (2) Transducer Tanks	Certification - Set of Two (2) Transducer Tanks	08-May-2023

### Found

Visual inspection, dimensional control and review of material certification carried out.

Transducer tanks were found covered by ABS Product Design Assessment no. 22-2241511-PDA.

### 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):

Fuglei, Tor Brodde  
Signed-off Date: 08-May-2023

### Reviewing Surveyor(s)

Work Order Reviewer: Vocke, Sebastian  
Work Order Credit Date: 08-May-2023