| Customer Name | SKIPPER ELECTRONICS A/S | Purchase Order No. | PWO 109439/109440 |
| :--- | :--- | :--- | :--- |
| Attending Office | Oslo | Report Number | OS3592123 |
| First Visit Date | 29-Nov-2018 | Last Visit Date | 29-Nov-2018 |


| Certification Of: | Set of Three (3) Transducer Tanks Manufacturer:SKIPPER ELECTRONICS A/S |  | Quantity: | One(1) |
| :---: | :---: | :---: | :---: | :---: |
| Survey Location: | Oslo, Norway |  |  |  |
| Equipment Data |  |  |  |  |
| Manufacturer Number(S. No.) |  | Batch no 18431 |  |  |
| Model Number |  | ETNST |  |  |
| Vendor Tag Number |  | PWO 109439 |  |  |
| Design Details |  |  |  |  |
| Design State |  | Product Design Assessed |  |  |
| ABS Reviewing Organization |  | London Engineering Depart |  |  |
| Drawing Number |  | 16-LD1465075-PDA |  |  |
| Additional Data |  |  |  |  |
| ABS Stamping |  | * OS3592123-B |  |  |
| Diameter |  | 219 mm |  |  |
| Material |  | Carbon Steel - Ordinary Str | ngth Steel | T SPEC |

This is to Certify that the undersigned surveyor(s) to this Bureau did, at the request of the customer, carry out the following survey and report as follows:

Traceability of materials used on this project has been verified.
Welding plans, procedures \& welder qualifications have been reviewed as required by Rule/Specifications.
All testing (pressure/load/operational/etc.) has been carried out as applicable and verified in accordance with the applicable Rules/specifications.
Testing machines are maintained in a satisfactory condition and records of their recheck or calibration dates confirmed.
Final markings for identification confirmed.

## Steel tanks intended for Echosounder Transducer Installation

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

Tanks were found covered by ABS Product Design Assessment no. 16-LD1465075-PDA.

[^0]
## Surveyor(s) to The American Bureau of Shipping Attending Surveyors

Electronically Signed on 30-Nov-2018

## Reviewed By

Fuglei, Tor Brodde Electronically Signed on 30-Nov-2018, Oslo Port


[^1]
[^0]:    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,

[^1]:    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 or 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,
     of Shipping who shall remain the sole judge thereof. Nothing contained in this Report or in any notation made in the 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.

