



Work Order: 4318687-A
 First Visit Date: 15-Jun-2020
 Last Visit Date: 07-Jul-2020
 Vendor PO Number: Not Specified
 Survey Location: Chongzhou, Chengdu city, Sichuan Province, P. R. China



Prototype Testing Report

Asset Type: Pipe
 Customer Name: SAILUOKE FLUID EQUIPMENT INC.
 WCN of Customer: 425642
 Location: Chongzhou, Chengdu city, Sichuan Province, P. R. China

This is to certify that the undersigned Surveyors to this Bureau did at the request of SAILUOKE FLUID EQUIPMENT INC., from 15-Jun-2020 to 07-Jul-2020, carry out the following Survey and report as follows:

Client Asset Name: Prototype Test the Mechanical Joints
 Quantity: 1

Name Plate Data

| ABS Label | Manufacturer | Purchaser | Designer | Destination Vessel |
|--------------------------------------|-------------------------------|-----------|-------------------------------|--------------------|
| Prototype Test the Mechanical Joints | SAILUOKE FLUID EQUIPMENT INC. | - | SAILUOKE FLUID EQUIPMENT INC. | - |

Basic Identification Data

Owner Tag Number: -

Design Details

| Design state | Drawing Number | Reviewing Organization | Rule Set Name | Rule Set Version |
|-------------------------|--|------------------------|---|------------------|
| Design Review Requested | Please see ABS Shanghai Review Letter Reference T1723984 Dated 26-MAR-2018 for details | Shanghai ESD | Rules for Building and Classing Steel Vessels | 2020 |

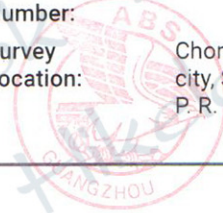
Statement of Work - Classification Service - Prototype Testing

- All parts of the Machinery/Equipment satisfactorily complied with the approved drawings. Amendments, if any, verified to be rectified and considered satisfactory.
- Functional testing satisfactorily performed in accordance with the applicable specification.
- Inspection and testing of machinery/equipment parts and assembly satisfactorily carried out in accordance with the applicable specification.
- Principal data verified in accordance with the applicable specification and approved plans, and confirmed to be within acceptable tolerances.
- Manufacturer's production processes were generally examined and material flow, control and identification technique found satisfactory.
- Manufacturer's quality system and workmanship standards reviewed and considered satisfactory or requested to be modified to suit the particular project requirements.
- Testing machines are maintained in satisfactory condition and records of their recheck or calibration dates confirmed.

NOTE: This Report evidences 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 by the Bureau or its duly authorized agents or other authorized entities. This Report is valid in relation only that the vessel, structure, item of material, equipment, machinery or structure herein 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, accuracy 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 shall constitute an indemnification made in contemplation of this Report shall be deemed to relieve any designer, builder, owner, manufacturer, seller, supplier, recaller, 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 |
|------------|--------------------------------------|--|--------------|
| 1.0 | Prototype Test the Mechanical Joints | Prototype Testing Prototype Test the Mechanical Joints | 07-Jul-2020 |

Found

At the request of the manufacturer of SAILUOKE FLUID EQUIPMENT INC. and according to 4-6-2/5.9.2 of ABS MVR 2020 and ASTM F1387 - 19, test specimens of mechanical joint (Material: ASTM Standard A479, Stainless Steel 316) were selected at random from the production line and stock and following prototype tests were carried out accordingly.

Following prototype tests were carried out in accordance with the requirements of ABS MVR as above mentioned and found satisfactory:

- 1) Tightness test(W)
- 2) Vibration test(A)
- 3) Pressure Pulsation test(A)
- 4) Burst pressure test(W)
- 5) Pull out test(W)
- 6) Fire endurance test(W)
- 7) Vacuum test(W)
- 8) Repeated assembly test(W)

Following prototype tests were carried out in accordance with the requirements of ASTM Standard as above mentioned and found satisfactory:

- 1) Examination of specimen(W)
- 2) Pneumatic proof test(W)
- 3) Hydrostatic proof test(W)
- 4) Impulse test(A)
- 5) Flexure fatigue test(A)
- 6) Tensile test(W)
- 7) Burst test(W)
- 8) Repeat assembly test(W)
- 9) Rotary flexure test(W)

Notes:

A-Audited and randomly witnessed



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W-Witnessed

For details of types, dimensions and tests, please refer to the attached manufacturer's test report Mechanical joint prototype test report with No.: HK-RD-TS-025 dated 28 Jun 2020.

Closing Paragraph:

Tests and examinations as required by the Rules and/or specifications as listed in this report were witnessed by the undersigned.

Attending Surveyor(s):

Feng, Ren-Hui
Signed-off Date: 07-Jul-2020

Reviewing Surveyor(s)

Work Order Reviewer: Wang, Qiu-Gen
Work Order Credit Date: 07-Jul-2020