



Factual Statement of Calibration

Project:

Client: **UNITED OFFSHORE SERVICES
Moerdijk, The Netherlands**

Office: **Rotterdam**

Client's Order Number: **Annual Calibration**

Date: **29 October 2019**

Order Status: **Complete**

Inspection Dates

First: **01 October 2019**

Final: **01 October 2019**

This statement is issued to **the above named Client in order to report that the undersigned Surveyor to this Society did attend their Works of Moerdijk on the above date, in order to witness the re-calibration of the following test machine**

Description machine:	12 MN TEST MACHINE
Owner:	United Offshore Services Appelweg 16 4782 PX Moerdijk
Purpose of machine:	Proof-load tests and destruction tests on hardware components for lifting, mooring and towing purposes.
Manufacturer:	M.A.N. – Manheim en Zwick - Ulm
Identification No.:	1300 Ton
Display:	Computer monitor
Measuring range:	500 – 12.000 kN
Description calibration:	Comparing force display of above mentioned machine with the force measuring device of Messrs. PTB Braunschweig with Client's calibration device No. 45165 as comparing device.
Environmental conditions:	Dry, approx. 18 °C
Measuring device:	Type Zst 13 MN No. 45165
Display:	Type AN 3060-I-2-PP No. A143729
Calibration date measuring device:	25-05-2018
Rejection standard:	q – Max. 1% of F display
Test Results:	≤ 1% in the range 500 – 12.000 kN, as described in Table 1

Continued Page 2 of 2

TABLE 1

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.

- 1) ZERO-SIGNALS {26948, 26953, 26956}
- 2) Mentioned values in column Fc 1, Fc 2 and Fc 3 are the calculated results of the display value as stated on the hand written test results minus the zero-signal.
- 3) Values in column F display, Fw and Fa-Fw are in kN.

F display	Fc 1	q 1	Fc 2	q 2	Fc 3	q 3	Fc average	F "PTB"	Fw	F - Fw	q average
500	5584	0.67	5583	0.64	5584	0.66	5583.7	5547	503.3	3.30	0.66
1000	11119	0.16	11120	0.17	11118	0.15	11119.0	11101	1001.60	1.60	0.16
2000	22226	0.04	22226	0.04	22225	0.03	22225.7	22218	2000.80	0.80	0.04
3000	33346	0.01	33347	0.00	33343	0.01	33345.3	33348	3000.30	0.30	0.01
4000	44509	0.04	44506	0.03	44503	0.02	44506.0	44492	4001.20	1.20	0.03
5000	55698	0.06	55696	0.06	55692	0.05	55695.3	55662	5003.00	3.00	0.06
6000	66902	0.07	66899	0.06	66893	0.05	66898.0	66858	6003.60	3.60	0.06
7000	78112	0.04	78109	0.03	78105	0.03	78108.7	78082	7002.10	2.10	0.03
8000	89417	0.09	89414	0.09	89410	0.08	89413.7	89337	8007.20	7.20	0.09
9000	100861	0.25	100860	0.24	100854	0.24	100858.3	100613	9021.60	21.60	0.24
10000	112282	0.31	112280	0.31	112273	0.30	112278.3	111933	10031.00	31.00	0.31
12000	134906	0.20	135183	0.40	135179	0.50	135089.3	134636	12044.4	44.4	0.37

Scope of inspection (as agreed with client)

- The test machine has been subjected to a thorough visual examination before calibration.
- Review of the calibration report of Physikalisch- Technische Bundesanstalt Braunschweig No. 12449 PTB 18 calibration date 25-05-2018.
- Witness the recording of calibration data.
- Signing and soft stamping of the test result form.
- Marking of machine Tag with surveyor's initial stamp and calibration date.

Results

Herewith we declare that the found values in the range of 500 kN up to and including 12000 kN as stated above comply with the acceptance criteria for test machines as stated in the LR Rules for the Manufacture, Testing and Certification of Materials Ch2. - Sec.1.2, Testing Machines.

- END -



 Rotterdam Office
Lloyd's Register EMEA
L1009.2016.04


D. Tessel
 Surveyor to Lloyd's Register EMEA

a member of the Lloyd's Register group.