

Calibration Certificate

Al Takamul Yard North Rumailah, Iraq

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Date of Issue: June 14, 2024

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REQUEST NUMBER	:	By Email	APPROVED BY: [Signature]
JOB NUMBER	:	QC/JN/24/00240	APPROVED BY: [Signature]
CERTIFICATE NUMBER	:	QC240614-02	



CUSTOMER DETAILS

Name : **Black Gold Gulf Oil And Gas Services Co.Ltd Basra Iraq**
 Address : North Rumaila Base south Iraq
 Department : Coil Tubing

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Load Cell
 Manufacturer : NA
 Model : NA
 Load Cell name on jam : CC-20K-0730
 Serial Number : **M0012001003**
 MTT Controller S/N : **A20020135 / MTT-400-00**
 Test Equipment S/N : **2003015Zg**
 Maximum Rated Full-Scale Force : 20K lbs
 Force Range : 0 K lbs to 20K lbs
 As Found : In Tolerance
 Location : QC Labs North Rumailah
 Calibrated By : Hussein Alaa
 Calibration Date : June 14, 2024
 Calibration Due : Recommended Validity : one (1) year from the date of calibration, (Where Required) **June 13, 2025**



ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature	:	22 °C	±	2 °C
Relative Humidity	:	45 %RH	±	5 %RH

CALIBRATION METHOD

The above equipment has been calibrated in accordance with International Calibration Procedure # ASTM E74-13a

The deviations of the measurements obtained from UUC with respect to reference standards are determined to obtain the error.

TRACEABILITY

The measurements made by Quality Control Labs, realize the physical units of measurements (SI), through its state of the art calibration standards that are controlled and maintained by QC.

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REFERENCE EQUIPMENT USED :

DESCRIPTION	MAKE	MODEL #	SERIAL #	CALIBRATION DATE	CALIBRATION DUE DATE
Load Cell	ZEMIC	BM14A-C3-40T	TA906164	November 2, 2023	November 1, 2024

CALIBRATION TEST RESULTS

Measurement Data For Force

Zero or Offset Readings of UUC

Before Adjustment	After Adjustment
K lbs	K lbs
0	0

Sensitivity Factor	3.00
Correction Factor	1.0025

Readings on UUC	Readings on JAM MTT	Error	Uncertainty (95 % C.L.)
K lbs	K lbs	K lbs	±K lbs
0	0.00	0.00	0
1000	1001.00	-0.01	0.2
5000	5003.00	-0.03	0.2
7500	7498.00	0.02	0.2
10000	9995.00	0.05	0.2
15000	14999.00	0.01	0.2

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor $k=2$, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with international practice.

DEVIATION FROM STANDARD METHOD : None

REMARK (S) :

- ☒ The results are as found (no adjustment done).
☐ The results are post adjustment.

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