Calibration Certificate

Al Takamul Yard, North Rumailah Iraq
●Phone : +964 7810009138 ● www.qualitycontrol-iraq ● E-mail: op@qualitycontrol-iraq

Date of Issue: January 3, 2024

REQUEST NUMBER	: By Mail	CUSTOMERS DETAILS	
QC JOB NUMBER	QC/JN/24/00101	Name	: **Halliburton Worldwide-Iraq Branch (Sperry)**
CERTIFICATE NUMBER	: **QC240103-01**	Address	: Oil Street, Western Burjessia Basra South Iraq

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description	**Torque Wrench**	Calibration Date	: January 3, 2024
Type of Indication	Analog	Calibration Due	: January 2, 2025
Manufacturer	: LICOTA	Last Calibration	: NEW
Model	: AQL-N3110V		
Serial Number	: 17065620		
SAP No.	: 300314707		
Calibrated Range	: 20 to 110 N.m		
Resolution	: 0.5 N.m		
Tolerance	: ± 4 %		
As Found	: Good		

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 standard # ISO 6789-1:2017

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

REFERENCE EQUIPMENT USED :

DESCRIPTION	MAKE / MODEL	SERIAL #	CALIBRATION DATE	CALIBRATION DUE DATE
Torque Wrench Calibrator	Nobar / Pro Test 1500	90962	20 Nov, 2023	19 Nov, 2024

CALIBRATION TEST RESULTS

Measurement Data For Torque

Clockwise Measurements

Readings on UUC	Readings on Ref. Standard (Avg. of 5 Measurements)	Deviation	Error Percentage (Tolerance ±4%)	Uncertainty (95 % C.L)
N.m	**N.m**	**N.m**	**%**	**± N.m**
20.0	20.30	-0.30	-1.5	0.12
65.0	66.30	-1.30	-2.0	0.12
110.0	112.50	-2.50	-2.3	0.12
Counter Clockwise Measurements				
20.0	20.40	-0.40	-2.0	0.12
65.0	66.80	-1.80	-2.8	0.12
110.0	112.70	-2.70	-2.5	0.12

Calibration results were found to conform as per specified accuracy requirements. Above Instrument has **PASSED** its Calibration.

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.

CALIBRATED BY	REVIWED & APPROVED BY LAB INCHARGE	CLIENT
Mahdi Halim	LAB INCHARGE Asjad Rafiq	