Calibration Certificate

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REQUEST NUMBER	: By Mail	CUSTOMERS DETAILS	
QC JOB NUMBER	QC/JN/24/00271	Name	: **Halliburton Worldwide-Iraq Branch (Sperry)**
CERTIFICATE NUMBER	: **QC240708-05**	Address	: Oil Street, Western Burjessia Basra South Iraq

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description	: **Torque Wrench**	Calibration Date	: July 8, 2024
Type of Indication	: Analog	Calibration Due	: July 7, 2025
Manufacturer	: PROTO		
Serial Number	: E180816		
SAP Number	: 30019997		
Model	: 6013C		
Calibrated Range	: 19 to 110 Nm		
Resolution	: 1 Nm		
Tolerance	: ± 4 %		
As Found	: In Tolerance		

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)
to	to	to	%	±IN- LB
19.0	19.8	-0.80	-0.7	0.30
60.0	61.4	-1.40	-1.2	0.30
110.0	111.2	-1.20	-1.0	0.30
Counter Clockwise Measurements				
19.0	20.10	-1.10	-0.9	0.30
60.0	60.90	-0.90	-0.7	0.30
110.0	110.70	-0.70	-0.6	0.30

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
Hussein Alaa	LAB INCHARGE Asjad Rafiq	