

## Calibration Certificate

Al Takamul Yard, North Rumailah Iraq

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**Date of Issue:** May 12, 2024

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REQUEST NUMBER : By Mail	CUSTOMERS DETAILS
QC JOB NUMBER : QC/JN/24/00211	
CERTIFICATE NUMBER : <b>QC240512-02</b>	
Name : <b>Halliburton Worldwide-Iraq Branch (Sperry)</b>	
Address : Oil Street, Western Burjessia Basra South Iraq	

### EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description	<b>Torque Wrench</b>	Calibration Date	: May 12, 2024
Type of Indication	Analog	Calibration Due	: <b>May 11, 2025</b>
Manufacturer	: Precision Instruments	Last Calibration	: NA
Model	: TQN585		
Serial Number	: 114694		
SAP No.	: 3000328346		
<b>Calibrated Range</b>	: 50 to 250 LB.FT		
Resolution	: 5 LB.FT		
Tolerance	: $\pm 4\%$		
As Found	: In Tolerance		



### ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature	: 22 °C	$\pm$	2°C	Relative Humidity	: 45 %RH	$\pm$	5% RH
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### 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 $\pm 4\%$ )	Uncertainty (95 % C.L)
LB.FT	LB.FT	LB.FT	%	$\pm$ LB.FT
50.0	51.80	-1.80	-0.7	0.50
100.0	103.10	-3.10	-1.2	0.50
150.0	152.90	-2.90	-1.2	0.50
200.0	203.50	-3.50	-1.4	0.50
250.0	254.40	-4.40	-2.1	0.50

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	REVIEWED & APPROVED BY	CLIENT
 Mahdi Halim	 LAB INCHARGE	Asjad Rafid