

Calibration Certificate

Al Takamul Yard, North Rumailah Iraq

• Phone : +964 7810009138 • www.qualitycontrol-iraq • E-mail: op@qualitycontrol-iraq

Date of Issue: July 8, 2024

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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 : QC240708-04	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	: DPF30481		
SAP Number	: 300192956		
Model	: 6013C		
Calibrated Range	: 50 to 250 FT-LBS		
Resolution	: 1 FT-LBS		
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.)
to	to	to	%	$\pm$ IN- LB
50.0	50.4	-0.40	-0.3	0.30
150.0	150.9	-0.90	-0.8	0.30
250.0	251.3	-1.30	-1.1	0.30

Counter Clockwise Measurements

50.0	51.10	-1.10	-0.9	0.30
150.0	150.80	-0.80	-0.7	0.30
250.0	250.30	-0.30	-0.3	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	REVIEWED & APPROVED BY LAB INCHARGE	CLIENT
 Hussein Alaa	 LAB INCHARGE Asjad Rafiq	