

Calibration Certificate

Al Takamul Yard, North Rumailah Iraq

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

Date of Issue: September 6, 2024

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REQUEST NUMBER : By Mail	CUSTOMERS DETAILS
QC JOB NUMBER : QC/JN/24/00343	Name : Halliburton Worldwide-Iraq Branch (Sperry)
CERTIFICATE NUMBER : QC240906-05	Address : Oil Street, Western Burjessia Basra South Iraq

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Torque Wrench	Calibration Date : September 6, 2024
Type of Indication : Analog	Calibration Due : September 5, 2025
Manufacturer : Precision Instruments	Last Calibration : September 11, 2023
Model : DS1FHM	
Serial Number : 1217	
SAP Number : 300093774	
Calibrated Range : 0 to 50 IN-LB	
Resolution : 1 IN-LB	
Tolerance : $\pm 4\%$	
As Found : In Tolerance	



ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : 22 °C $\pm$ 2°C	Relative Humidity : 15 %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)
IN-LB	IN-LB	IN-LB	%	$\pm$ IN-LB
10.0	10.5	-0.50	-1.0	0.5
30.0	31.4	-1.40	-2.8	0.5
50.0	51.5	-1.50	-3.0	0.5
Counter Clockwise Measurements				
10.0	10.60	-0.60	-1.2	0.5
30.0	31.80	-1.80	-3.6	0.5
50.0	51.80	-1.80	-3.6	0.5

 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	REVISED & APPROVED BY LAB INCHARGE	CLIENT
 Hussein Alaa	 LAB INCHARGE Asjad Rafiq	