

Calibration Certificate

Al Takamul Yard, North Rumailah Iraq

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Date of Issue: July 29, 2024

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REQUEST NUMBER : By Mail	CUSTOMERS DETAILS
QC JOB NUMBER : QC/JN/24/00297	Name : Halliburton Worldwide-Iraq Branch (Sperry)
CERTIFICATE NUMBER : QC240729-03	Address : Oil Street, Western Burjessia Basra South Iraq

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Torque Wrench	Calibration Date : July 29, 2024
Type of Indication : Analog	Calibration Due : July 28, 2025
Manufacturer : FORCE	Last Calibration : July 30, 2023
Serial Number : 351717	
SAP Number : 300308810	
Model : 6473420W	
Calibrated Range : 20 to 100 N.m	
Resolution : 2.5 N.m	
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)
N.m	N.m	N.m	%	$\pm$ N.m
20.0	19.2	0.80	0.8	2.0
60.0	59.1	0.90	0.9	2.0
100.0	100.8	-0.80	-0.8	2.0
Counter Clockwise Measurements				
20.0	20.40	-0.40	-0.4	2.0
60.0	61.30	-1.30	-1.3	2.0
100.0	101.80	-1.80	-1.8	2.0

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	