

## Calibration Certificate

Al Takamul Yard, North Rumailah Iraq

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Date of Issue: June 3, 2024

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REQUEST NUMBER : By Mail	CUSTOMERS DETAILS
QC JOB NUMBER : QC/JN/24/00226	
CERTIFICATE NUMBER : <b>QC240603-15</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	: June 3, 2024
Type of Indication	Analog	Calibration Due	: <b>June 2, 2025</b>
Manufacturer	: AUTO MASTER	Last Calibration	: June 20, 2023
Model	: NA		
Serial Number	: SP-HB-993		
SAP No.	: 300191115		
<b>Calibrated Range</b>	: 28 to 210 N.m		
Resolution	: 1 N.m		
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)
N.m	N.m	N.m	%	$\pm$ LB.FT
30.0	31.50	-1.50	-0.7	0.40
120.0	121.80	-1.80	-0.9	0.40
210.0	211.60	-1.60	-0.8	0.40
<b>Counter Clockwise Measurements</b>				
30.0	31.80	-1.80	-0.9	0.40
120.0	122.50	-2.50	-1.2	0.40
210.0	212.90	-2.90	-1.4	0.40

 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
 Mahdi Halim	 LAB INCHARGE Asjad Rafiq	

