

Calibration Certificate

Al Takamul Yard North Rumailah, Iraq

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Date of Issue : April 27, 2024

REQUEST NUMBER : By Contract
JOB NUMBER : QC/JN/24/00193
CERTIFICATE NUMBER : QC240427-05

APPROVED BY : ASJAD RAFIQ



CUSTOMER DETAILS

Name : DQ (MUD UNIT)
Address : Rumaila Base south Iraq

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : **Viscometer**
Manufacturer : HAITONGDA
Model : HTD 13145
Serial Number : 131452303022
Range : 3- 600 RPM
Resolution : NA
As Found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : April 27, 2024
Calibration Due : **April 26, 2025**
Last Calibration : NA

ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : 22 °C ± 2 °C
Relative Humidity : 40 %RH ± 5 %RH

CALIBRATION METHOD

The above equipment has been calibrated by measuring RPM against a Reference Standard Non Contact Tachometer
The deviations of the measurement obtained from UUC with respect to reference standards are determined to obtain the error .

TRACEABILITY

The measurements made by Issued by: Quality Control Calibration & Testing Lab., realize the physical units of measurements (SI), through its state of the art calibration standards that are controlled and maintained by QC.

REFERENCE EQUIPMENT USED :

DESCRIPTION	SERIAL NO.	MAKE / MODEL	CALIBRATION DATE	DUE DATE
Digital Tachometer	8598564223	FLUKE / 930	November 20, 2023	November 19, 2024

CALIBRATION TEST RESULTS

Readings on UUC	Readings on Ref. Standard	Error	Uncertainty (95% C.L)
RPM	RPM	RPM	± RPM
3	3.1	0.1	0.2
6	6.1	0.1	0.2
100	101.0	1.0	2.0
200	202.0	2.0	2.0
300	302.0	2.0	2.0
600	603.0	3.0	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.

REMARK (S) : ☒ The results are as found (no adjustment done).
☐ The results are post adjustment.