

Certificate of Calibration

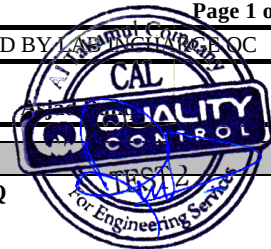
Al Takamul Yard, North Rumailah South Iraq

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Date of Issue: May 20, 2024

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REQUEST NUMBER : By Contract
JOB NUMBER : QC/JN/24/00217
CERTIFICATE NUMBER : QC240520-174

APPROVED BY: 

CUSTOMER DETAILS

Name : HONGHUA OIL & GAS ENGINEERING SERVICES LTD. IRAQ
Address : Majnoon Oil Field , Basra - Iraq
Location : HH008

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : MARTIN
Model : NA
Serial Number : B67A-20
Type : Analog
Location : Drilling Cabine
Range : 0 to 7500 psi
Calibrated Range : 0 to 7500 psi
Resolution : NA
Tolerance : ± 1 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : May 20, 2024
Calibration Due : 19 May 2025
Last Calibration Date : NA



DEVIATION FROM STANDARD METHOD : None
REMARK (S) :

1. No adjustments were made prior to calibration.
2. Overload test was not performed.
3. No accessories were fitted.
4. Values were rounded in computation.

ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : $25.0 \pm 2^{\circ}\text{C}$ Humidity : $44.0 \pm 5\% \text{ RH}$ Atm. Pressure : $1011.0 \pm 10 \text{ hPa}$

CALIBRATION METHOD

The above equipment has been calibrated in accordance with Calibration Procedure QC/CP/R/03 Rev. 01

The above instrument has been calibrated in increasing and decreasing pressure mode using a Digital Pressure Calibrator as the reference standard having traceability to Internationally recognised standards.

REFERENCE EQUIPMENT USED

DESCRIPTION	SERIAL NO.	MAKE / MODEL	CALIBRATION DATE	CALIBRATION DUE DATE
Digital Pressure Gauge	468802	AMETEK / XP2i	20 Nov, 2023	19 Nov, 2024

CALIBRATION TEST RESULTS

Measured Values on Unit Under Calibration (M)	Ref. Standard Values (A)	Deviation (D=M-A)	Error Percentage
psi	psi	psi	$\pm$
0	0	0.00	0.0
1500	1508	-8.00	-0.1
3000	3013	-12.80	-0.2
4500	4516	-16.10	-0.2
6000	6020	-20.00	-0.3
7500	7521	-21.10	-0.3

Calibration results were found to conform as per specified accuracy requirements. Above Instrument has **PASSED** its Calibration.

- ☒ The results are as found (no adjustment done).
☐ The results are post adjustment.

Certificate of Calibration

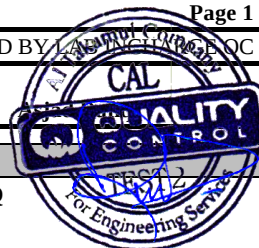
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REQUEST NUMBER	: By Contract	APPROVED BY	LABORATORY IN CHARGE
JOB NUMBER	: QC/JN/24/00217		
CERTIFICATE NUMBER	: QC240520-175		



CUSTOMER DETAILS

Name : HONGHUA OIL & GAS ENGINEERING SERVICES LTD. IRAQ
Address : Majnoon Oil Field , Basra - Iraq
Location : HH008

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : MD-TOTCO
Model : NA
Serial Number : B67A-20
Type : Analog
Location : Drilling Cabine
Range : 0 to 24 Pounds
Calibrated Range : 0 to 24 Pounds
Resolution : NA
Tolerance : ± 1 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : May 20, 2024
Calibration Due : 19 May 2025
Last Calibration Date : NA



DEVIATION FROM STANDARD METHOD : None
REMARK (S) :

1. No adjustments were made prior to calibration.
2. Overload test was not performed.
3. No accessories were fitted.
4. Values were rounded in computation.

ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : 25.0 $\pm$ 2°C **Humidity** : 44.0 $\pm$ 5 % RH **Atm. Pressure** : 1011.0 $\pm$ 10 hPa

CALIBRATION METHOD

The above equipment has been calibrated in accordance with Calibration Procedure QC/CP/R/03 Rev. 01

The above instrument has been calibrated in increasing and decreasing pressure mode using a Digital Pressure Calibrator as the reference standard having traceability to Internationally recognised standards.

REFERENCE EQUIPMENT USED

DESCRIPTION	SERIAL NO.	MAKE / MODEL	CALIBRATION DATE	CALIBRATION DUE DATE
Digital Pressure Gauge	468802	AMETEK / XP2i	20 Nov, 2023	19 Nov, 2024

CALIBRATION TEST RESULTS

Measured Values on Unit Under Calibration (M)	Ref. Standard Values (A)	Deviation (D=M-A)	Error Percentage
Pounds	Pounds	Pounds	±
0	0	0.00	0.0
1500	1508	-8.00	-33.3
3000	3013	-12.80	-53.3
4500	4516	-16.10	-67.1
6000	6020	-20.00	-83.3
7500	7521	-21.10	-87.9

Calibration results were found to conform as per specified accuracy requirements. Above Instrument has **PASSED** its Calibration.

- ☒ The results are as found (no adjustment done).
☐ The results are post adjustment.

Certificate of Calibration

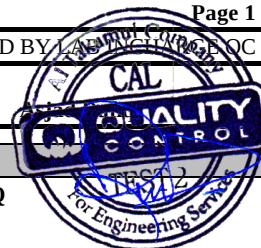
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REQUEST NUMBER	: By Contract	APPROVED BY	LABORATORY QC
JOB NUMBER	: QC/JN/24/00217		
CERTIFICATE NUMBER	: QC240520-176		



CUSTOMER DETAILS

Name : HONGHUA OIL & GAS ENGINEERING SERVICES LTD. IRAQ
Address : Majnoon Oil Field , Basra - Iraq
Location : HH008

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Weight Indicator
Manufacturer : NOV Elmar
Model : NA
Serial Number : PG-B1932-68
Type : Analog
Location : Rig Floor
Range : 0 to 4900 KN
Calibrated Range : 0 to 4900 KN
Resolution : 50 KN
F/S Calibration : 990 psi
Tolerance : ± 1 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : May 20, 2024
Calibration Due : 19 May 2025
Last Calibration Date : NA



DEVIATION FROM STANDARD METHOD : None

REMARK (S) :

1. No adjustments were made prior to calibration.
2. Overload test was not performed.
3. No accessories were fitted.
4. Values were rounded in computation.

ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : 25.0 $\pm$ 2°C **Humidity** : 44.0 $\pm$ 5 % RH **Atm. Pressure** : 1011.0 $\pm$ 10 hPa

CALIBRATION METHOD

The above equipment has been calibrated in accordance with Calibration Procedure QC/CP/R/03 Rev. 01

The above instrument has been calibrated in increasing and decreasing pressure mode using a Digital Pressure Calibrator as the reference standard having traceability to Internationally recognised standards.

REFERENCE EQUIPMENT USED

DESCRIPTION	SERIAL NO.	MAKE / MODEL	CALIBRATION DATE	CALIBRATION DUE DATE
Digital Pressure Gauge	468802	AMETEK / XP2i	20 Nov, 2023	19 Nov, 2024

CALIBRATION TEST RESULTS

Measured Values on Unit Under Calibration (M)	Ref. Standard Values (A)	Deviation (D=M-A)	Error Percentage
KN	KN	KN	$\pm$
0	0	0.00	0.0
500	501	-1.00	-0.02
1000	1003	-3.00	-0.06
2000	2005	-5.00	-0.10
3000	3004	-4.00	-0.08
4900	4907	-7.00	-0.14

Calibration results were found to conform as per specified accuracy requirements. Above Instrument has **PASSED** its Calibration.

- ☒ The results are as found (no adjustment done).
☐ The results are post adjustment.



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Contact : +9647810009138

Certificate of Calibration

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Date of Issue: May 20, 2024

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REQUEST NUMBER	: By Contract	APPROVED BY	LABORATORY IN CHARGE
JOB NUMBER	: QC/JN/24/00217		
CERTIFICATE NUMBER	: QC240520-180		



CUSTOMER DETAILS

Name : HONGHUA OIL & GAS ENGINEERING SERVICES LTD. IRAQ
Address : Majnoon Oil Field , Basra - Iraq
Location : HH008

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : WXPGE
Model : NA
Serial Number : CAL-H008-20
Type : Analog
Location : Power Tong
Range : 0 to 230 psi
Calibrated Range : 0 to 230 psi
Resolution : NA
Tolerance : ± 1 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : May 20, 2024
Calibration Due : **19 May 2025**
Last Calibration Date : NA



DEVIATION FROM STANDARD METHOD : None
REMARK (S) :

1. No adjustments were made prior to calibration.
2. Overload test was not performed.
3. No accessories were fitted.
4. Values were rounded in computation.

ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : $25.0 \pm 2^{\circ}\text{C}$ Humidity : $44.0 \pm 5\% \text{ RH}$ Atm. Pressure : $1011.0 \pm 10 \text{ hPa}$

CALIBRATION METHOD

The above equipment has been calibrated in accordance with Calibration Procedure QC/CP/R/03 Rev. 01

The above instrument has been calibrated in increasing and decreasing pressure mode using a Digital Pressure Calibrator as the reference standard having traceability to Internationally recognised standards.

REFERENCE EQUIPMENT USED

DESCRIPTION	SERIAL NO.	MAKE / MODEL	CALIBRATION DATE	CALIBRATION DUE DATE
Digital Pressure Gauge	468802	AMETEK / XP2i	20 Nov, 2023	19 Nov, 2024

CALIBRATION TEST RESULTS

Measured Values on Unit Under Calibration (M)	Ref. Standard Values (A)	Deviation (D=M-A)	Error Percentage
psi	psi	psi	$\pm$
0	0.00	0.00	0.0
50	50.20	-0.20	-0.1
100	100.30	-0.30	-0.1
150	150.50	-0.50	-0.2
200	200.80	-0.80	-0.3
230	231.10	-1.10	-0.5

Calibration results were found to conform as per specified accuracy requirements. Above Instrument has **PASSED** its Calibration.

- ☒ The results are as found (no adjustment done).
☐ The results are post adjustment.

Certificate of Calibration

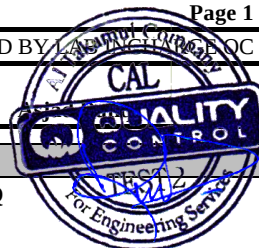
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REQUEST NUMBER	: By Contract	APPROVED BY	LABORATORY NO. QC
JOB NUMBER	: QC/JN/24/00217		
CERTIFICATE NUMBER	: QC240520-181		



CUSTOMER DETAILS

Name : HONGHUA OIL & GAS ENGINEERING SERVICES LTD. IRAQ
Address : Majnoon Oil Field , Basra - Iraq
Location : HH008

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : MC
Model : NA
Serial Number : M1303022
Type : Analog
Location : Power Tong
Range : 0 to 25 Mpa
Calibrated Range : 0 to 25 Mpa
Resolution : NA
Tolerance : ±1 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : May 20, 2024
Calibration Due : 19 May 2025
Last Calibration Date : NA



DEVIATION FROM STANDARD METHOD : None
REMARK (S) :

1. No adjustments were made prior to calibration.
2. Overload test was not performed.
3. No accessories were fitted.
4. Values were rounded in computation.

ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : 25.0 ± 2°C **Humidity** : 44.0 ± 5 % RH **Atm. Pressure** : 1011.0 ± 10 hPa

CALIBRATION METHOD

The above equipment has been calibrated in accordance with Calibration Procedure QC/CP/R/03 Rev. 01

The above instrument has been calibrated in increasing and decreasing pressure mode using a Digital Pressure Calibrator as the reference standard having traceability to Internationally recognised standards.

REFERENCE EQUIPMENT USED

DESCRIPTION	SERIAL NO.	MAKE / MODEL	CALIBRATION DATE	CALIBRATION DUE DATE
Digital Pressure Gauge	468802	AMETEK / XP2i	20 Nov, 2023	19 Nov, 2024

CALIBRATION TEST RESULTS

Measured Values on Unit Under Calibration (M)	Ref. Standard Values (A)	Deviation (D=M-A)	Error Percentage
Mpa	Mpa	Mpa	±
0	0.00	0.00	0.0
5	5.04	-0.04	-0.2
10	10.07	-0.07	-0.3
15	15.05	-0.05	-0.2
20	20.10	-0.10	-0.4
25	25.13	-0.13	-0.5

Calibration results were found to conform as per specified accuracy requirements. Above Instrument has **PASSED** its Calibration.

- ☒ The results are as found (no adjustment done).
☐ The results are post adjustment.

Certificate of Calibration

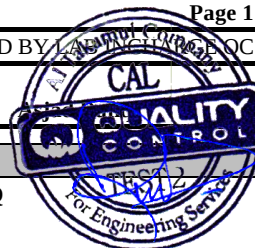
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Date of Issue: May 20, 2024

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REQUEST NUMBER	: By Contract	APPROVED BY	LABORATORY NO. QC
JOB NUMBER	: QC/JN/24/00217		
CERTIFICATE NUMBER	: QC240520-182		



CUSTOMER DETAILS

Name : HONGHUA OIL & GAS ENGINEERING SERVICES LTD. IRAQ
Address : Majnoon Oil Field , Basra - Iraq
Location : HH008

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : MC
Model : NA
Serial Number : CAL-H008-21
Type : Analog
Location : Power Tong
Range : 0 to 3500 psi
Calibrated Range : 0 to 3500 psi
Resolution : NA
Tolerance : ±1 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : May 20, 2024
Calibration Due : 19 May 2025
Last Calibration Date : NA



DEVIATION FROM STANDARD METHOD : None
REMARK (S) :

1. No adjustments were made prior to calibration.
2. Overload test was not performed.
3. No accessories were fitted.
4. Values were rounded in computation.

ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : 25.0 ± 2°C **Humidity** : 44.0 ± 5 % RH **Atm. Pressure** : 1011.0 ± 10 hPa

CALIBRATION METHOD

The above equipment has been calibrated in accordance with Calibration Procedure QC/CP/R/03 Rev. 01

The above instrument has been calibrated in increasing and decreasing pressure mode using a Digital Pressure Calibrator as the reference standard having traceability to Internationally recognised standards.

REFERENCE EQUIPMENT USED

DESCRIPTION	SERIAL NO.	MAKE / MODEL	CALIBRATION DATE	CALIBRATION DUE DATE
Digital Pressure Gauge	468802	AMETEK / XP2i	20 Nov, 2023	19 Nov, 2024

CALIBRATION TEST RESULTS

Measured Values on Unit Under Calibration (M)	Ref. Standard Values (A)	Deviation (D=M-A)	Error Percentage
psi	psi	psi	±
0	0	0.00	0.0
500	502	-2.00	-0.1
1000	1004	-3.50	-0.1
2000	2011	-11.30	-0.3
3000	3014	-14.10	-0.4
3500	3521	-21.00	-0.6

Calibration results were found to conform as per specified accuracy requirements. Above Instrument has **PASSED** its Calibration.

- ☒ The results are as found (no adjustment done).
☐ The results are post adjustment.

Certificate of Calibration

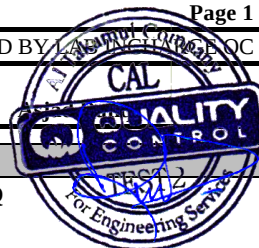
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REQUEST NUMBER	: By Contract	APPROVED BY	LABORATORY IN CHARGE
JOB NUMBER	: QC/JN/24/00217		
CERTIFICATE NUMBER	: QC240520-183		



CUSTOMER DETAILS

Name : HONGHUA OIL & GAS ENGINEERING SERVICES LTD. IRAQ
Address : Majnoon Oil Field , Basra - Iraq
Location : HH008

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : MC
Model : NA
Serial Number : CAL-H008-22
Type : Analog
Location : Power Tong
Range : 0 to 25 Mpa
Calibrated Range : 0 to 25 Mpa
Resolution : NA
Tolerance : ±1 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : May 20, 2024
Calibration Due : 19 May 2025
Last Calibration Date : NA



DEVIATION FROM STANDARD METHOD : None
REMARK (S) :

1. No adjustments were made prior to calibration.
2. Overload test was not performed.
3. No accessories were fitted.
4. Values were rounded in computation.

ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : 25.0 ± 2°C **Humidity** : 44.0 ± 5 % RH **Atm. Pressure** : 1011.0 ± 10 hPa

CALIBRATION METHOD

The above equipment has been calibrated in accordance with Calibration Procedure QC/CP/R/03 Rev. 01

The above instrument has been calibrated in increasing and decreasing pressure mode using a Digital Pressure Calibrator as the reference standard having traceability to Internationally recognised standards.

REFERENCE EQUIPMENT USED

DESCRIPTION	SERIAL NO.	MAKE / MODEL	CALIBRATION DATE	CALIBRATION DUE DATE
Digital Pressure Gauge	468802	AMETEK / XP2i	20 Nov, 2023	19 Nov, 2024

CALIBRATION TEST RESULTS

Measured Values on Unit Under Calibration (M)	Ref. Standard Values (A)	Deviation (D=M-A)	Error Percentage
Mpa	Mpa	Mpa	±
0	0.00	0.00	0.0
5	5.03	-0.03	-0.1
10	10.04	-0.04	-0.2
15	15.08	-0.08	-0.3
20	20.13	-0.13	-0.5
25	25.18	-0.18	-0.7

Calibration results were found to conform as per specified accuracy requirements. Above Instrument has **PASSED** its Calibration.

- ☒ The results are as found (no adjustment done).
☐ The results are post adjustment.

Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

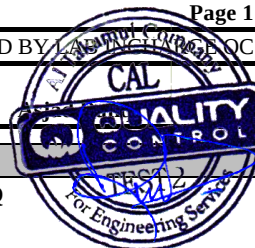
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REQUEST NUMBER : By Contract
JOB NUMBER : QC/JN/24/00217
CERTIFICATE NUMBER : QC240520-184

APPROVED BY: [Signature]



CUSTOMER DETAILS

Name : HONGHUA OIL & GAS ENGINEERING SERVICES LTD. IRAQ
Address : Majnoon Oil Field , Basra - Iraq
Location : HH008

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : MC
Model : NA
Serial Number : 12012436
Type : Analog
Location : Power Tong
Range : 0 to 600 psi
Calibrated Range : 0 to 600 psi
Resolution : NA
Tolerance : ± 1 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : May 20, 2024
Calibration Due : 19 May 2025
Last Calibration Date : NA



DEVIATION FROM STANDARD METHOD : None
REMARK (S) :

1. No adjustments were made prior to calibration.
2. Overload test was not performed.
3. No accessories were fitted.
4. Values were rounded in computation.

ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : $25.0 \pm 2^{\circ}\text{C}$ Humidity : $44.0 \pm 5\% \text{ RH}$ Atm. Pressure : $1011.0 \pm 10 \text{ hPa}$

CALIBRATION METHOD

The above equipment has been calibrated in accordance with Calibration Procedure QC/CP/R/03 Rev. 01

The above instrument has been calibrated in increasing and decreasing pressure mode using a Digital Pressure Calibrator as the reference standard having traceability to Internationally recognised standards.

REFERENCE EQUIPMENT USED

DESCRIPTION	SERIAL NO.	MAKE / MODEL	CALIBRATION DATE	CALIBRATION DUE DATE
Digital Pressure Gauge	468802	AMETEK / XP2i	20 Nov, 2023	19 Nov, 2024

CALIBRATION TEST RESULTS

Measured Values on Unit Under Calibration (M)	Ref. Standard Values (A)	Deviation (D=M-A)	Error Percentage
psi	psi	psi	$\pm$
0	0	0.00	0.0
100	101	-1.10	-0.2
300	302	-1.50	-0.3
400	402	-1.80	-0.3
500	502	-2.10	-0.4
600	603	-3.00	-0.5

Calibration results were found to conform as per specified accuracy requirements. Above Instrument has **PASSED** its Calibration.

- ☒ The results are as found (no adjustment done).
☐ The results are post adjustment.

Certificate of Calibration

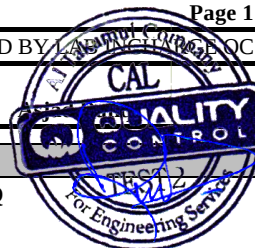
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REQUEST NUMBER	: By Contract	APPROVED BY	LABORATORY NO. QC
JOB NUMBER	: QC/JN/24/00217		
CERTIFICATE NUMBER	: QC240520-185		



CUSTOMER DETAILS

Name : HONGHUA OIL & GAS ENGINEERING SERVICES LTD. IRAQ
Address : Majnoon Oil Field , Basra - Iraq
Location : HH008

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : MC
Model : NA
Serial Number : M1607077
Type : Analog
Location : Power Tong
Range : 0 to 25 Mpa
Calibrated Range : 0 to 25 Mpa
Resolution : NA
Tolerance : ±1 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : May 20, 2024
Calibration Due : 19 May 2025
Last Calibration Date : NA



DEVIATION FROM STANDARD METHOD : None
REMARK (S) :

1. No adjustments were made prior to calibration.
2. Overload test was not performed.
3. No accessories were fitted.
4. Values were rounded in computation.

ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : 25.0 ± 2°C **Humidity** : 44.0 ± 5 % RH **Atm. Pressure** : 1011.0 ± 10 hPa

CALIBRATION METHOD

The above equipment has been calibrated in accordance with Calibration Procedure QC/CP/R/03 Rev. 01

The above instrument has been calibrated in increasing and decreasing pressure mode using a Digital Pressure Calibrator as the reference standard having traceability to Internationally recognised standards.

REFERENCE EQUIPMENT USED

DESCRIPTION	SERIAL NO.	MAKE / MODEL	CALIBRATION DATE	CALIBRATION DUE DATE
Digital Pressure Gauge	468802	AMETEK / XP2i	20 Nov, 2023	19 Nov, 2024

CALIBRATION TEST RESULTS

Measured Values on Unit Under Calibration (M)	Ref. Standard Values (A)	Deviation (D=M-A)	Error Percentage
Mpa	Mpa	Mpa	±
0	0.00	0.00	0.0
5	5.06	-0.06	-0.2
10	10.08	-0.08	-0.3
15	15.11	-0.11	-0.4
20	20.15	-0.15	-0.6
25	25.14	-0.14	-0.6

Calibration results were found to conform as per specified accuracy requirements. Above Instrument has **PASSED** its Calibration.

- ☒ The results are as found (no adjustment done).
☐ The results are post adjustment.

Certificate of Calibration

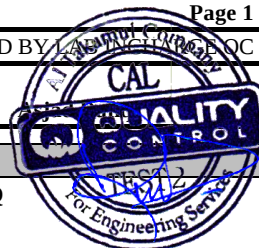
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REQUEST NUMBER	: By Contract	APPROVED BY	LABORATORY MANAGER
JOB NUMBER	: QC/JN/24/00217		
CERTIFICATE NUMBER	: QC240520-186		



CUSTOMER DETAILS

Name : HONGHUA OIL & GAS ENGINEERING SERVICES LTD. IRAQ
Address : Majnoon Oil Field , Basra - Iraq
Location : HH008

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : RAJTECH
Model : NA
Serial Number : CAL-H008-23
Type : Analog
Location : Mud Tank - Middle Tank
Range : 0 to 350 psi
Calibrated Range : 0 to 350 psi
Resolution : NA
Tolerance : ±1 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : May 20, 2024
Calibration Due : 19 May 2025
Last Calibration Date : NA



DEVIATION FROM STANDARD METHOD : None
REMARK (S) :

1. No adjustments were made prior to calibration.
2. Overload test was not performed.
3. No accessories were fitted.
4. Values were rounded in computation.

ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : 25.0 ± 2°C **Humidity** : 44.0 ± 5 % RH **Atm. Pressure** : 1011.0 ± 10 hPa

CALIBRATION METHOD

The above equipment has been calibrated in accordance with Calibration Procedure QC/CP/R/03 Rev. 01

The above instrument has been calibrated in increasing and decreasing pressure mode using a Digital Pressure Calibrator as the reference standard having traceability to Internationally recognised standards.

REFERENCE EQUIPMENT USED

DESCRIPTION	SERIAL NO.	MAKE / MODEL	CALIBRATION DATE	CALIBRATION DUE DATE
Digital Pressure Gauge	468802	AMETEK / XP2i	20 Nov, 2023	19 Nov, 2024

CALIBRATION TEST RESULTS

Measured Values on Unit Under Calibration (M)	Ref. Standard Values (A)	Deviation (D=M-A)	Error Percentage
psi	psi	psi	±
0	0	0.00	0.0
50	51	-0.60	-0.2
100	101	-1.30	-0.4
200	202	-1.50	-0.4
300	302	-1.90	-0.5
350	351	-0.50	-0.1

Calibration results were found to conform as per specified accuracy requirements. Above Instrument has **PASSED** its Calibration.

- ☒ The results are as found (no adjustment done).
☐ The results are post adjustment.

Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

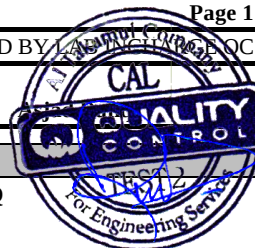
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Date of Issue: May 20, 2024

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REQUEST NUMBER : By Contract
JOB NUMBER : QC/JN/24/00217
CERTIFICATE NUMBER : QC240520-187

APPROVED BY: [Signature]



CUSTOMER DETAILS

Name : HONGHUA OIL & GAS ENGINEERING SERVICES LTD. IRAQ
Address : Majnoon Oil Field , Basra - Iraq
Location : HH008

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : RAJTECH
Model : NA
Serial Number : CAL-H008-24
Type : Analog
Location : Mud Tank - Middle Tank
Range : 0 to 350 psi
Calibrated Range : 0 to 350 psi
Resolution : NA
Tolerance : ± 1 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : May 20, 2024
Calibration Due : 19 May 2025
Last Calibration Date : NA



DEVIATION FROM STANDARD METHOD : None
REMARK (S) :

1. No adjustments were made prior to calibration.
2. Overload test was not performed.
3. No accessories were fitted.
4. Values were rounded in computation.

ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : $25.0 \pm 2^{\circ}\text{C}$ Humidity : $44.0 \pm 5\% \text{ RH}$ Atm. Pressure : $1011.0 \pm 10 \text{ hPa}$

CALIBRATION METHOD

The above equipment has been calibrated in accordance with Calibration Procedure QC/CP/R/03 Rev. 01

The above instrument has been calibrated in increasing and decreasing pressure mode using a Digital Pressure Calibrator as the reference standard having traceability to Internationally recognised standards.

REFERENCE EQUIPMENT USED

DESCRIPTION	SERIAL NO.	MAKE / MODEL	CALIBRATION DATE	CALIBRATION DUE DATE
Digital Pressure Gauge	468802	AMETEK / XP2i	20 Nov, 2023	19 Nov, 2024

CALIBRATION TEST RESULTS

Measured Values on Unit Under Calibration (M)	Ref. Standard Values (A)	Deviation (D=M-A)	Error Percentage
psi	psi	psi	$\pm$
0	0.00	0.00	0.0
50	50.2	-0.20	-0.1
100	101.1	-1.10	-0.3
200	201.5	-1.50	-0.4
300	302.0	-2.00	-0.6
350	351.0	-1.00	-0.3

Calibration results were found to conform as per specified accuracy requirements. Above Instrument has **PASSED** its Calibration.

- ☒ The results are as found (no adjustment done).
☐ The results are post adjustment.

Certificate of Calibration

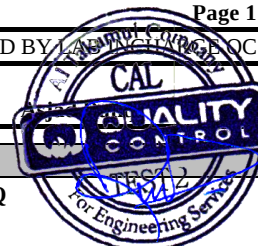
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Date of Issue: May 20, 2024

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REQUEST NUMBER	: By Contract	APPROVED BY	LABORATORY IN CHARGE
JOB NUMBER	: QC/JN/24/00217		
CERTIFICATE NUMBER	: QC240520-188		



CUSTOMER DETAILS

Name : HONGHUA OIL & GAS ENGINEERING SERVICES LTD. IRAQ
Address : Majnoon Oil Field , Basra - Iraq
Location : HH008

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : RAJTECH
Model : NA
Serial Number : CAL-H008-25
Type : Analog
Location : Mud Tank - Middle Tank
Range : 0 to 350 psi
Calibrated Range : 0 to 350 psi
Resolution : NA
Tolerance : ±1 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : May 20, 2024
Calibration Due : 19 May 2025
Last Calibration Date : NA



DEVIATION FROM STANDARD METHOD : None
REMARK (S) :

1. No adjustments were made prior to calibration.
2. Overload test was not performed.
3. No accessories were fitted.
4. Values were rounded in computation.

ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : 25.0 ± 2°C **Humidity** : 44.0 ± 5 % RH **Atm. Pressure** : 1011.0 ± 10 hPa

CALIBRATION METHOD

The above equipment has been calibrated in accordance with Calibration Procedure QC/CP/R/03 Rev. 01

The above instrument has been calibrated in increasing and decreasing pressure mode using a Digital Pressure Calibrator as the reference standard having traceability to Internationally recognised standards.

REFERENCE EQUIPMENT USED

DESCRIPTION	SERIAL NO.	MAKE / MODEL	CALIBRATION DATE	CALIBRATION DUE DATE
Digital Pressure Gauge	468802	AMETEK / XP2i	20 Nov, 2023	19 Nov, 2024

CALIBRATION TEST RESULTS

Measured Values on Unit Under Calibration (M)	Ref. Standard Values (A)	Deviation (D=M-A)	Error Percentage
psi	psi	psi	±
0	0.00	0.00	0.0
50	51.8	-1.80	-0.5
100	102.3	-2.30	-0.7
200	202.3	-2.30	-0.7
300	302	-2.00	-0.6
350	352	-2.20	-0.6

Calibration results were found to conform as per specified accuracy requirements. Above Instrument has **PASSED** its Calibration.

- ☒ The results are as found (no adjustment done).
☐ The results are post adjustment.

Certificate of Calibration

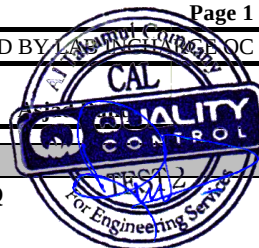
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REQUEST NUMBER	: By Contract	APPROVED BY	LABORATORY IN CHARGE
JOB NUMBER	: QC/JN/24/00217		
CERTIFICATE NUMBER	: QC240520-189		



CUSTOMER DETAILS

Name : HONGHUA OIL & GAS ENGINEERING SERVICES LTD. IRAQ
Address : Majnoon Oil Field , Basra - Iraq
Location : HH008

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : RAJTECH
Model : NA
Serial Number : CAL-H008-26
Type : Analog
Location : Mud Tank - Middle Tank
Range : 0 to 350 psi
Calibrated Range : 0 to 350 psi
Resolution : NA
Tolerance : ±1 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : May 20, 2024
Calibration Due : 19 May 2025
Last Calibration Date : NA



DEVIATION FROM STANDARD METHOD : None
REMARK (S) :

1. No adjustments were made prior to calibration.
2. Overload test was not performed.
3. No accessories were fitted.
4. Values were rounded in computation.

ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : 25.0 ± 2°C **Humidity** : 44.0 ± 5 % RH **Atm. Pressure** : 1011.0 ± 10 hPa

CALIBRATION METHOD

The above equipment has been calibrated in accordance with Calibration Procedure QC/CP/R/03 Rev. 01

The above instrument has been calibrated in increasing and decreasing pressure mode using a Digital Pressure Calibrator as the reference standard having traceability to Internationally recognised standards.

REFERENCE EQUIPMENT USED

DESCRIPTION	SERIAL NO.	MAKE / MODEL	CALIBRATION DATE	CALIBRATION DUE DATE
Digital Pressure Gauge	468802	AMETEK / XP2i	20 Nov, 2023	19 Nov, 2024

CALIBRATION TEST RESULTS

Measured Values on Unit Under Calibration (M)	Ref. Standard Values (A)	Deviation (D=M-A)	Error Percentage
psi	psi	psi	±
0	0	0.00	0.0
50	50	-0.20	-0.1
100	101	-0.80	-0.2
200	201	-0.90	-0.3
300	301	-1.40	-0.4
350	352	-2.20	-0.6

Calibration results were found to conform as per specified accuracy requirements. Above Instrument has **PASSED** its Calibration.

- ☒ The results are as found (no adjustment done).
☐ The results are post adjustment.

Certificate of Calibration

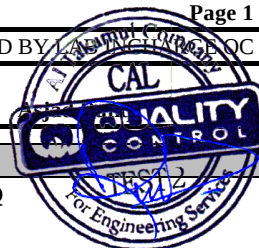
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Date of Issue: May 20, 2024

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REQUEST NUMBER	: By Contract	APPROVED BY	LABORATORY IN CHARGE
JOB NUMBER	: QC/JN/24/00217		
CERTIFICATE NUMBER	: QC240520-190		



CUSTOMER DETAILS

Name : HONGHUA OIL & GAS ENGINEERING SERVICES LTD. IRAQ
Address : Majnoon Oil Field , Basra - Iraq
Location : HH008

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : RAJTECH
Model : NA
Serial Number : CAL-H008-27
Type : Analog
Location : Mud Tank - Middle Tank
Range : 0 to 350 psi
Calibrated Range : 0 to 350 psi
Resolution : NA
Tolerance : ±1 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : May 20, 2024
Calibration Due : 19 May 2025
Last Calibration Date : NA



DEVIATION FROM STANDARD METHOD : None
REMARK (S) :

1. No adjustments were made prior to calibration.
2. Overload test was not performed.
3. No accessories were fitted.
4. Values were rounded in computation.

ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : 25.0 ± 2°C **Humidity** : 44.0 ± 5 % RH **Atm. Pressure** : 1011.0 ± 10 hPa

CALIBRATION METHOD

The above equipment has been calibrated in accordance with Calibration Procedure QC/CP/R/03 Rev. 01

The above instrument has been calibrated in increasing and decreasing pressure mode using a Digital Pressure Calibrator as the reference standard having traceability to Internationally recognised standards.

REFERENCE EQUIPMENT USED

DESCRIPTION	SERIAL NO.	MAKE / MODEL	CALIBRATION DATE	CALIBRATION DUE DATE
Digital Pressure Gauge	468802	AMETEK / XP2i	20 Nov, 2023	19 Nov, 2024

CALIBRATION TEST RESULTS

Measured Values on Unit Under Calibration (M)	Ref. Standard Values (A)	Deviation (D=M-A)	Error Percentage
psi	psi	psi	±
0	0.00	0.00	0.0
50	51.3	-1.30	-0.4
100	101.4	-1.40	-0.4
200	202.1	-2.10	-0.6
300	302	-2.20	-0.6
350	351	-0.60	-0.2

Calibration results were found to conform as per specified accuracy requirements. Above Instrument has **PASSED** its Calibration.

- ☒ The results are as found (no adjustment done).
☐ The results are post adjustment.

Certificate of Calibration

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REQUEST NUMBER	: By Contract	APPROVED BY	LABORATORY NOC
JOB NUMBER	: QC/JN/24/00217		
CERTIFICATE NUMBER	: QC240520-191		

CUSTOMER DETAILS

Name : HONGHUA OIL & GAS ENGINEERING SERVICES LTD. IRAQ
Address : Majnoon Oil Field , Basra - Iraq
Location : HH008

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : RAJTECH
Model : NA
Serial Number : CAL-H008-28
Type : Analog
Location : Mud Tank - Middle Tank
Range : 0 to 350 psi
Calibrated Range : 0 to 350 psi
Resolution : NA
Tolerance : ± 1 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : May 20, 2024
Calibration Due : 19 May 2025
Last Calibration Date : NA



DEVIATION FROM STANDARD METHOD : None
REMARK (S) :

1. No adjustments were made prior to calibration.
2. Overload test was not performed.
3. No accessories were fitted.
4. Values were rounded in computation.

ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : $25.0 \pm 2^{\circ}\text{C}$ Humidity : $44.0 \pm 5\% \text{ RH}$ Atm. Pressure : $1011.0 \pm 10 \text{ hPa}$

CALIBRATION METHOD

The above equipment has been calibrated in accordance with Calibration Procedure QC/CP/R/03 Rev. 01

The above instrument has been calibrated in increasing and decreasing pressure mode using a Digital Pressure Calibrator as the reference standard having traceability to Internationally recognised standards.

REFERENCE EQUIPMENT USED

DESCRIPTION	SERIAL NO.	MAKE / MODEL	CALIBRATION DATE	CALIBRATION DUE DATE
Digital Pressure Gauge	468802	AMETEK / XP2i	20 Nov, 2023	19 Nov, 2024

CALIBRATION TEST RESULTS

Measured Values on Unit Under Calibration (M)	Ref. Standard Values (A)	Deviation (D=M-A)	Error Percentage
psi	psi	psi	$\pm$
0	0.00	0.00	0.0
50	52.0	-2.00	-0.6
100	102.4	-2.40	-0.7
200	202.5	-2.50	-0.7
300	302.0	-2.00	-0.6
350	352.0	-2.00	-0.6

Calibration results were found to conform as per specified accuracy requirements. Above Instrument has **PASSED** its Calibration.

- ☒ The results are as found (no adjustment done).
☐ The results are post adjustment.

Certificate of Calibration

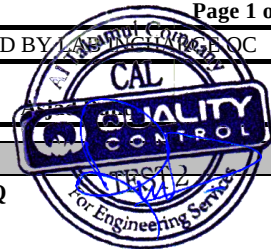
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Date of Issue: May 20, 2024

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REQUEST NUMBER : By Contract
JOB NUMBER : QC/JN/24/00217
CERTIFICATE NUMBER : QC240520-192

APPROVED BY: 

CUSTOMER DETAILS

Name : HONGHUA OIL & GAS ENGINEERING SERVICES LTD. IRAQ
Address : Majnoon Oil Field , Basra - Iraq
Location : HH008

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : WIKA
Model : NA
Serial Number : 2321112304
Type : Analog
Location : Choke Manifold
Range : 0 to 3500 psi
Calibrated Range : 0 to 3500 psi
Resolution : NA
Tolerance : ± 1 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : May 20, 2024
Calibration Due : 19 May 2025
Last Calibration Date : NA



DEVIATION FROM STANDARD METHOD : None
REMARK (S) :

1. No adjustments were made prior to calibration.
2. Overload test was not performed.
3. No accessories were fitted.
4. Values were rounded in computation.

ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : $25.0 \pm 2^{\circ}\text{C}$ Humidity : $44.0 \pm 5\% \text{ RH}$ Atm. Pressure : $1011.0 \pm 10 \text{ hPa}$

CALIBRATION METHOD

The above equipment has been calibrated in accordance with Calibration Procedure QC/CP/R/03 Rev. 01

The above instrument has been calibrated in increasing and decreasing pressure mode using a Digital Pressure Calibrator as the reference standard having traceability to Internationally recognised standards.

REFERENCE EQUIPMENT USED

DESCRIPTION	SERIAL NO.	MAKE / MODEL	CALIBRATION DATE	CALIBRATION DUE DATE
Digital Pressure Gauge	468802	AMETEK / XP2i	20 Nov, 2023	19 Nov, 2024

CALIBRATION TEST RESULTS

Measured Values on Unit Under Calibration (M)	Ref. Standard Values (A)	Deviation (D=M-A)	Error Percentage
psi	psi	psi	$\pm$
0	0	0.00	0.0
500	503	-2.50	-0.1
1000	1008	-8.10	-0.2
2000	2011	-11.40	-0.3
3000	3014	-14.30	-0.4
3500	3522	-22.30	-0.6

Calibration results were found to conform as per specified accuracy requirements. Above Instrument has **PASSED** its Calibration.

- ☒ The results are as found (no adjustment done).
☐ The results are post adjustment.

Certificate of Calibration

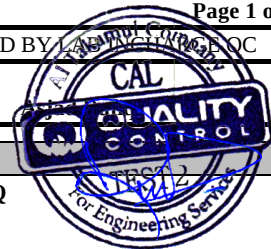
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Date of Issue: May 20, 2024

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REQUEST NUMBER : By Contract
JOB NUMBER : QC/JN/24/00217
CERTIFICATE NUMBER : QC240520-193

APPROVED BY:  CAL

CUSTOMER DETAILS

Name : HONGHUA OIL & GAS ENGINEERING SERVICES LTD. IRAQ
Address : Majnoon Oil Field , Basra - Iraq
Location : HH008

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : WIKA
Model : NA
Serial Number : 1208999227
Type : Analog
Location : Choke Manifold
Range : 0 to 10000 psi
Calibrated Range : 0 to 10000 psi
Resolution : NA
Tolerance : ± 1 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : May 20, 2024
Calibration Due : 19 May 2025
Last Calibration Date : NA



DEVIATION FROM STANDARD METHOD : None
REMARK (S) :

1. No adjustments were made prior to calibration.
2. Overload test was not performed.
3. No accessories were fitted.
4. Values were rounded in computation.

ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : $25.0 \pm 2^{\circ}\text{C}$ Humidity : $44.0 \pm 5\% \text{ RH}$ Atm. Pressure : $1011.0 \pm 10 \text{ hPa}$

CALIBRATION METHOD

The above equipment has been calibrated in accordance with Calibration Procedure QC/CP/R/03 Rev. 01

The above instrument has been calibrated in increasing and decreasing pressure mode using a Digital Pressure Calibrator as the reference standard having traceability to Internationally recognised standards.

REFERENCE EQUIPMENT USED

DESCRIPTION	SERIAL NO.	MAKE / MODEL	CALIBRATION DATE	CALIBRATION DUE DATE
Digital Pressure Gauge	468802	AMETEK / XP2i	20 Nov, 2023	19 Nov, 2024

CALIBRATION TEST RESULTS

Measured Values on Unit Under Calibration (M)	Ref. Standard Values (A)	Deviation (D=M-A)	Error Percentage
psi	psi	psi	$\pm$
0	0	0.00	0.0
2000	2007	-7.20	-0.1
4000	4011	-11.30	-0.1
6000	6013	-12.80	-0.1
8000	8019	-19.10	-0.2
10000	10025	-25.10	-0.3

Calibration results were found to conform as per specified accuracy requirements. Above Instrument has **PASSED** its Calibration.

- ☒ The results are as found (no adjustment done).
☐ The results are post adjustment.