

Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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

Date of Issue: August 8, 2024

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|----------------------------------|--|
| REQUEST NUMBER : By Contract | APPROVED BY:  |
| JOB NUMBER : QC/JN/24/00314 | |
| CERTIFICATE NUMBER : QC240808-01 | |

CUSTOMER DETAILS

Name : **Zhongman Petroleum Engineering**
 Address : Basra, South Iraq
 Department : ZPEC025

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : **Pressure Gauge**
 Manufacturer : SU ZHI
 Model : 02000433
 Serial Number : **1802260**
 Location : **Choke Panel**
 Type : Analog
 Range : 0 to 12000 psi
 Calibrated Range : 0 to 12000 psi
 Resolution : 50 psi
 Accuracy Class : 1.6
 Tolerance : 1 % of Full Scale
 As found : In Tolerance
 Calibrated By : Hussein Alaa
 Calibration Date : August 8, 2024
Calibration Due : 07 August 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 |
| 3000 | 3009 | -9.00 | -0.1 |
| 6000 | 6017 | -17.00 | -0.1 |
| 9000 | 9022 | -22.00 | -0.2 |
| 12000 | 12031 | -31.00 | -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.



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| REQUEST NUMBER | : By Contract | APPROVED BY: LAL CHARGE QC |
| JOB NUMBER | : QC/JN/24/00314 | |
| CERTIFICATE NUMBER | : QC240808-02 | |



CUSTOMER DETAILS

Name : **Zhongman Petroleum Engineering**
 Address : Basra, South Iraq
 Department : ZPEC025

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Position of Chock
 Manufacturer : MC
 Model : 00000154
 Serial Number : **702716**
 Location : **Chock Panel**
 Type : Analog
 Range : 3 Close to 15 Open psi
 Calibrated Range : 3 Close to 15 Open psi
 Resolution : 1 psi
 Accuracy : 1.5
 Tolerance : 1.5 % from Each Reading
 As found Condition : Good
 Calibrated By : Hussein Alaa
 Calibration Date : August 8, 2024
Calibration Due : August 7, 2025



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 : 22.0 ± 2°C Humidity : 44.0 ± 5 % RH Atm. Pressure : 1011.0 ± 10 hPa

CALIBRATION METHOD

The above equipment has been calibrated in accordance with BS EN837-1
 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 | 15 Aug, 2023 | 14 Aug, 2024 |

CALIBRATION TEST RESULTS

| Measured Values on Unit Under Calibration (M) | Ref. Standard Values (A) | Deviation (D=M-A) | Tolerance Limit |
|---|--------------------------|-------------------|-----------------|
| psi | psi | psi | ± psi |
| 0 | 0.0 | 0.0 | 0.0 |
| 3 | 3.1 | -0.1 | 0.0 |
| 15 | 15.2 | -0.2 | 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.

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| REQUEST NUMBER | : By Contract | APPROVED BY: LAL CHARGE QC |
| JOB NUMBER | : QC/JN/24/00314 | |
| CERTIFICATE NUMBER | : QC240808-03 | |



CUSTOMER DETAILS

Name : **Zhongman Petroleum Engineering**
 Address : Basra, South Iraq
 Department : ZPEC025

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Position of Chock
 Manufacturer : MC
 Model : 00000154
 Serial Number : **702713**
 Location : **Chock Panel**
 Type : Analog
 Range : 3 Close to 15 Open psi
 Calibrated Range : 3 Close to 15 Open psi
 Resolution : 1 psi
 Accuracy : 1.5
 Tolerance : 1.5 % from Each Reading
 As found Condition : Good
 Calibrated By : Hussein Alaa
 Calibration Date : August 8, 2024
Calibration Due : August 7, 2025



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 : 22.0 ± 2°C Humidity : 44.0 ± 5 % RH Atm. Pressure : 1011.0 ± 10 hPa

CALIBRATION METHOD

The above equipment has been calibrated in accordance with BS EN837-1
 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 | 15 Aug, 2023 | 14 Aug, 2024 |

CALIBRATION TEST RESULTS

| Measured Values on Unit Under Calibration (M) | Ref. Standard Values (A) | Deviation (D=M-A) | Tolerance Limit |
|---|--------------------------|-------------------|-----------------|
| psi | psi | psi | ± psi |
| 0 | 0.0 | 0.0 | 0.0 |
| 3 | 3.0 | 0.0 | 0.0 |
| 15 | 15.1 | -0.1 | 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.

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| REQUEST NUMBER : By Contract | APPROVED BY:  |
| JOB NUMBER : QC/JN/24/00314 | |
| CERTIFICATE NUMBER : QC240808-04 | |

CUSTOMER DETAILS

Name : **Zhongman Petroleum Engineering**
Address : Basra, South Iraq
Department : ZPEC025

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : **Pressure Gauge**
Manufacturer : SU ZHI
Model : 02000433
Serial Number : **1802256**
Location : **Choke Panel**
Type : Analog
Range : 0 to 12000 psi
Calibrated Range : 0 to 12000 psi
Resolution : 50 psi
Accuracy Class : 1.6
Tolerance : 1 % of Full Scale
As found : In Tolerance
Calibrated By : Hussein Alaa
Calibration Date : August 8, 2024
Calibration Due : 07 August 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 |
| 3000 | 3030 | -30.00 | -0.3 |
| 6000 | 6024 | -24.00 | -0.2 |
| 9000 | 9011 | -11.00 | -0.1 |
| 12000 | 12015 | -15.00 | -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.

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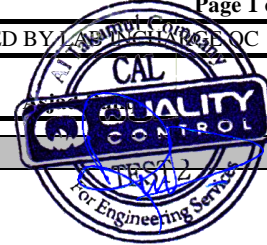
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| REQUEST NUMBER | : By Contract | APPROVED BY:  |
| JOB NUMBER | : QC/JN/24/00314 | |
| CERTIFICATE NUMBER | : QC240808-05 | |

CUSTOMER DETAILS

Name : **Zhongman Petroleum Engineering**
 Address : Basra, South Iraq
 Department : ZPEC025



EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : **Pressure Gauge**
 Manufacturer : PA
 Model : 18772-21
 Serial Number : **YNB158PS-2946**
 Location : **Choke Panel**
 Type : Analog
 Range : 0 to 5800 psi
 Calibrated Range : 0 to 5800 psi
 Resolution : 20 psi
 Accuracy Class : 0.5
 Tolerance : 1 % of Full Scale
 As found : In Tolerance
 Calibrated By : Hussein Alaa
 Calibration Date : August 8, 2024
Calibration Due : 07 August 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 |
| 1500 | 1491 | 9.00 | 0.2 |
| 3000 | 2996 | 4.00 | 0.1 |
| 4500 | 4505 | -5.00 | -0.1 |
| 5800 | 5814 | -14.00 | -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.

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| REQUEST NUMBER | : By Contract | APPROVED BY:  |
| JOB NUMBER | : QC/JN/24/00314 | |
| CERTIFICATE NUMBER | : QC240808-06 | |

CUSTOMER DETAILS

Name : **Zhongman Petroleum Engineering**
 Address : Basra, South Iraq
 Department : ZPEC025

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : **Pressure Gauge**
 Manufacturer : PA
 Model : 18772-21
 Serial Number : **JYA01A-2539**
 Location : **Choke Panel**
 Type : Analog
 Range : 0 to 7250 psi
 Calibrated Range : 0 to 7250 psi
 Resolution : 20 psi
 Accuracy Class : 0.5
 Tolerance : 1 % of Full Scale
 As found : In Tolerance
 Calibrated By : Hussein Alaa
 Calibration Date : August 8, 2024
Calibration Due : 07 August 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 |
| 2000 | 2007 | -7.00 | -0.1 |
| 4000 | 4012 | -12.00 | -0.2 |
| 6000 | 6020 | -20.00 | -0.3 |
| 7250 | 7262 | -12.00 | -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.


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| REQUEST NUMBER : By Contract | APPROVED BY:  |
| JOB NUMBER : QC/JN/24/00314 | |
| CERTIFICATE NUMBER : QC240808-07 | |

CUSTOMER DETAILS

Name : **Zhongman Petroleum Engineering**
Address : Basra, South Iraq
Department : ZPEC025

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : **Pressure Gauge**
Manufacturer : MC
Model : 00000154
Serial Number : **611040**
Location : **Choke Panel**
Type : Analog
Range : 0 to 1450 psi
Calibrated Range : 0 to 1450 psi
Resolution : 50 psi
Accuracy Class : 2.5
Tolerance : 1 % of Full Scale
As found : In Tolerance
Calibrated By : Hussein Alaa
Calibration Date : August 8, 2024
Calibration Due : 07 August 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 | 501 | -1.00 | -0.1 |
| 750 | 752 | -2.00 | -0.1 |
| 1000 | 1004 | -4.00 | -0.3 |
| 1450 | 1453 | -3.00 | -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.

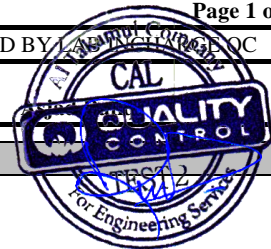
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| REQUEST NUMBER : By Contract | APPROVED BY:  |
| JOB NUMBER : QC/JN/24/00314 | |
| CERTIFICATE NUMBER : QC240808-08 | |

CUSTOMER DETAILS

Name : **Zhongman Petroleum Engineering**
 Address : Basra, South Iraq
 Department : ZPEC025

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : **Pressure Gauge**
 Manufacturer : MC
 Model : 00000154
 Serial Number : **610236**
 Location : **Choke Panel**
 Type : Analog
 Range : 0 to 230 psi
 Calibrated Range : 0 to 230 psi
 Resolution : 5 psi
 Accuracy Class : 2.5
 Tolerance : 1 % of Full Scale
 As found : In Tolerance
 Calibrated By : Hussein Alaa
 Calibration Date : August 8, 2024
Calibration Due : 07 August 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 | 49.2 | 0.80 | 0.3 |
| 100 | 99.6 | 0.40 | 0.2 |
| 200 | 199.8 | 0.20 | 0.1 |
| 230 | 230.2 | -0.20 | -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

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| REQUEST NUMBER : By Contract | APPROVED BY:  |
| JOB NUMBER : QC/JN/24/00314 | |
| CERTIFICATE NUMBER : QC240808-09 | |

CUSTOMER DETAILS

Name : **Zhongman Petroleum Engineering**
 Address : Basra, South Iraq
 Department : ZPEC025

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : **Pressure Gauge**
 Manufacturer : MC
 Model : 00000154
 Serial Number : **701262**
 Location : **Choke Panel**
 Type : Analog
 Range : 0 to 145 psi
 Calibrated Range : 0 to 145 psi
 Resolution : 5 psi
 Accuracy Class : 2.5
 Tolerance : 1 % of Full Scale
 As found : In Tolerance
 Calibrated By : Hussein Alaa
 Calibration Date : August 8, 2024
Calibration Due : 07 August 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 | 50.3 | -0.30 | -0.2 |
| 75 | 75.2 | -0.20 | -0.1 |
| 100 | 100.4 | -0.40 | -0.3 |
| 145 | 145.3 | -0.30 | -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.

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| REQUEST NUMBER : By Contract | APPROVED BY:  |
| JOB NUMBER : QC/JN/24/00314 | |
| CERTIFICATE NUMBER : QC240808-010 | |

CUSTOMER DETAILS

Name : **Zhongman Petroleum Engineering**
 Address : Basra, South Iraq
 Department : ZPEC025

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : **Air Gauge**
 Manufacturer : MC
 Model : NA
 Serial Number : **PG-19-64**
 Location : **Choke Panel**
 Type : Analog
 Range : 0 to 150 psi
 Calibrated Range : 0 to 150 psi
 Resolution : 5 psi
 Accuracy Class : 2.5
 Tolerance : 1 % of Full Scale
 As found : In Tolerance
 Calibrated By : Hussein Alaa
 Calibration Date : August 8, 2024
Calibration Due : 07 August 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 | 50.3 | -0.30 | -0.2 |
| 75 | 75.2 | -0.20 | -0.1 |
| 100 | 100.4 | -0.40 | -0.3 |
| 150 | 150.5 | -0.50 | -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

Al Takamul Yard, North Rumailah South Iraq

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

Date of Issue: August 8, 2024

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|-----------------------------------|--|
| REQUEST NUMBER : By Contract | APPROVED BY:  |
| JOB NUMBER : QC/JN/24/00314 | |
| CERTIFICATE NUMBER : QC240808-011 | |

CUSTOMER DETAILS

Name : **Zhongman Petroleum Engineering**
 Address : Basra, South Iraq
 Department : ZPEC025

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : **Pressure Gauge**
 Manufacturer : WIKA
 Model : EN837-1
 Serial Number : **1208999227**
 Location : **Choke Panel**
 Type : Analog
 Range : 0 to 30 psi
 Calibrated Range : 0 to 30 psi
 Resolution : 1 psi
 Accuracy Class : 1
 Tolerance : 1 % of Full Scale
 As found : In Tolerance
 Calibrated By : Hussein Alaa
 Calibration Date : August 8, 2024
Calibration Due : 07 August 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 |
| 5 | 4.95 | 0.05 | 0.2 |
| 10 | 9.97 | 0.03 | 0.1 |
| 20 | 19.98 | 0.02 | 0.1 |
| 30 | 30.02 | -0.02 | -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.

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CUSTOMER DETAILS

Name : **Zhongman Petroleum Engineering**
Address : Basra, South Iraq
Department : ZPEC025

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : **Pressure Gauge**
Manufacturer : LEEMIN
Model : 02260160
Serial Number : **293-08514**
Location : **Choke Panel**
Type : Analog
Range : 0 to 60 MPa
Calibrated Range : 0 to 60 MPa
Resolution : 1 MPa
Accuracy Class : 2.5
Tolerance : 1 % of Full Scale
As found : In Tolerance
Calibrated By : Hussein Alaa
Calibration Date : August 8, 2024
Calibration Due : 07 August 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.

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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 | 0.00 | 0.0 |
| 15 | 15.04 | -0.04 | -0.1 |
| 30 | 30.09 | -0.09 | -0.2 |
| 45 | 45.11 | -0.11 | -0.2 |
| 60 | 60.18 | -0.18 | -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.