



1600 E. Murdock Wichita, KS 67214

Phone: (866) 384-3010



CERTIFICATE  
#3040.01

## Manual Wrench Type II Class A

Calibration Report for:

Jayhawk Oilfield Supply, Inc.

40031 N US 281 Hwy  
Pratt, KS 67066

Calibration #:	200902.74.51114
Calibration Date:	09/02/2020
Expiration Date:	09/02/2021
Temperature:	22.6 °C
Humidity:	44.50% RH

Asset ID #:	1598889523
Asset Type:	Manual Wrench Type II Class A
Manufacturer:	CDI TORQUE PRODUCTS
Model #:	2503MFRRH
Serial #:	0619703172

Testing Points		"As Found" Data (1) (FT-LBS)						"As Left" Data (2) (FT-LBS)						Low Limit -4%	High Limit +4%
		1	2	3	4	5	AVG	1	2	3	4	5	AVG		
50	Readings	46.20	45.95	46.20	45.95	46.05	46.07	48.60	48.70	48.45	49.05	49.00	48.76	48	52
	Dev. %	-7.60	-8.10	-7.60	-8.10	-7.90	-7.86	-2.80	-2.60	-3.10	-1.90	-2.00	-2.48		
	CL 95% (FT-LBS)	0.9	0.9	0.9	0.9	0.9	0.9	1	1	1	1	1	1		
150	Readings	149.75	149.50	150.05	148.20	149.15	149.33	151.70	151.85	150.95	151.80	150.50	151.36	144	156
	Dev. %	-0.17	-0.33	0.03	-1.20	-0.57	-0.45	1.13	1.23	0.63	1.20	0.33	0.91		
	CL 95% (FT-LBS)	1.9	1.9	1.9	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9		
250	Readings	250.70	250.95	249.65	249.80	249.40	250.1	253.55	252.95	253.20	253.15	254.55	253.48	240	260
	Dev. %	0.28	0.38	-0.14	-0.08	-0.24	0.04	1.42	1.18	1.28	1.26	1.82	1.39		
	CL 95% (FT-LBS)	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3		

### Remarks:

(1) "As Found" Data: **OUT OF TOLERANCE**

Test Instrument is not within manufacturer's standards or is not linear or predictable. See "As Left" remark below for recommended action.

(2) "As Left" Data: **IN TOLERANCE**

Test Instrument was left within applicable tolerance levels.

### Technician Comments:

Found wrench out of tolerance. Realigned and Calibrated.

Mark Stieber, Calibration Technician

### Notes:

A. This accredited organization maintains both A2LA accreditation to ISO/IEC 17025 and ANSI/NCSL Z540-1-1994 for the specific tests/calibrations listed in A2LA Certificate #3040.01, and ISO 6789.

B. Environmental conditions were held within Alltite's standards of 60 to 88 degrees Fahrenheit and below 90% relative humidity.

C. Procedures for this calibration method are outlined in CP-005-19.

D. All standards and associated equipment used to calibrate this instrument have been calibrated and are traceable to A2LA accreditation and the National Institute of Standards and Technology (NIST).

E. Customer acknowledges and agrees that Alltite's standard sales terms and conditions are incorporated herein by reference and made a part of this calibration report.

F. This document relates only to the test instrument listed on this certificate and cannot be reproduced, except in full, without written approval of Alltite.

G. Calibration performed and valid for Clockwise Direction only.

H. This calibration document is followed by a Calibration Schedule page.

I. The uncertainty(s) listed represent an expanded uncertainty expressed using a coverage factor of k=2, such that the confidence level (CL) approximates 95%. CL 95% = Unaccred. or \* means the measurement falls outside our accredited scope and therefore no measure of uncertainty has been determined.



## In-House (Mechanical Lab, Wichita) Calibration Laboratory: Certification Schedule

Capacity	Item	Model #	Serial #	Traceability/Report #	Date Due Cal
20-120 deg.	Dickson Display	FH635	13259020	00261630-09vbuo	03/11/2021
500 FTLB	AKO Torque Transducer	TSD 511	4199	200713.03.37313	01/09/2022