



1600 E. Murdock Wichita, KS 67214

Phone: (866) 384-3010



CERTIFICATE
#3040.01

Manual Wrench Type II Class A

Calibration Report for:

Coffeyville Resources Nitrogen Fertilizers, LLC

701 E Martin St

Coffeyville, KS 67337-1911

Calibration #:	140127.28.32517
Calibration Date:	01/24/2014
Expiration Date:	01/24/2015
Temperature:	71.4 °F
Humidity:	38.50% RH

Asset ID #:	1390599150
Asset Type:	Manual Wrench Type II Class A
Manufacturer:	CDI TORQUE PRODUCTS
Model #:	75MFIMHSS
Serial #:	0811067865

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		
15	Readings	16.94	17.06	17.24	17.06	17.15	17.09	15.48	15.22	15.23	15.45	15.41	15.358	14.4	15.6
	Dev. %	12.93	13.73	14.93	13.73	14.33	13.93	3.20	1.47	1.53	3.00	2.73	2.39		
	CL 95% (FT-LBS)	2.7	2.7	2.7	2.7	2.7	2.7	2.4	2.4	2.4	2.4	2.4	2.4		
45	Readings	52.05	52.19	52.02	52.07	51.93	52.052	43.88	44.11	44.28	44.60	43.83	44.14	43.2	46.8
	Dev. %	15.67	15.98	15.60	15.71	15.40	15.67	-2.49	-1.98	-1.60	-0.89	-2.60	-1.91		
	CL 95% (FT-LBS)	1	1	1	1	1	1	0.9	0.9	0.9	0.9	0.9	0.9		
75	Readings	85.77	85.59	85.61	85.56	85.60	85.626	73.5	73.65	73.64	73.84	73.45	73.616	72	78
	Dev. %	14.36	14.12	14.15	14.08	14.13	14.17	-2.00	-1.80	-1.81	-1.55	-2.07	-1.85		
	CL 95% (FT-LBS)	1.3	1.3	1.3	1.3	1.3	1.3	1.2	1.2	1.2	1.2	1.2	1.2		

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:

Greg Dunsmoor, 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
500 in.lb	AWS Load Cell	MTMDP-25	10196-2	27730	07/02/2015
250 ft.lb	AWS Transducer	ILF-250-1.5	10110-3	27730	07/03/2015
Temp/Humid	Dickson Temp/Humid (Mechanical Lab)	FH635	13259020	637161	11/20/2014