



1600 E. Murdock Wichita, KS 67214

Phone: (866) 384-3010



CERTIFICATE
#3040.01

Hydraulic Torque Wrench

Calibration Report for:

Columbia Gulf - Hampshire CS 4

4077 Booker Farm Road
Hampshire, TN 38461

Calibration #:	190109.26.37989
Calibration Date:	01/09/2019
Expiration Date:	01/09/2020
Temperature:	21.6 °C
Humidity:	13.80% RH

Asset ID #:	1000044840
Asset Type:	Hydraulic Torque Wrench
Manufacturer:	WREN TOOLS
Model #:	2 LOW
Serial #:	250038

Pressure Setting (PSI)	Reference Standards (FT-LBS)	"As Found" Data (1) ("FT-LBS)	"As Found" CL 95% ("FT-LBS)	"As Left" Data (2) ("FT-LBS)	"As Left" CL 95% ("FT-LBS)
1000	170	166	0.9	168	0.9
2000	340	340	0.9	338	0.9
3000	510	516	5.9	514	5.9
4000	680	692	6.2	688	6.2
5000	850	870	6.4	874	6.4
6000	1020	1038	6.7	1034	6.6
7000	1190	1222	6.9	1212	6.9
8000	1360	1394	7.2	1400	7.2
9000	1530	1580	7.4	1576	7.4
10000	1700	1738	7.6	1750	7.7

As Left T:P Ratio:	0.1737	Ref. T:P Ratio:	0.1709	% Deviation	1.6384%
---------------------------	--------	------------------------	--------	--------------------	---------

Remarks:

This hydraulic wrench was tested at ten equal points based on the instrument's maximum pressure range. Readings were taken at those points before and after maintenance was performed (if applicable).

(1) "As Found" Data: IN TOLERANCE

Test Instrument was found within applicable tolerance levels.

(2) "As Left" Data: IN TOLERANCE

Test Instrument was left within applicable tolerance levels.



Christopher Mixon, 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 Allite's standards of 60 to 88 degrees Fahrenheit and below 90% relative humidity.
- C. Procedures for this calibration method are outlined in CP-001-19.
- 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 Allite'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 Allite.
- 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.



Van 10: Spare 7520 (Inactive) Calibration Laboratory: Certification Schedule

Capacity	Item	Model #	Serial #	Traceability/Report #	Date Due Cal
10,000 psi	GE Druck Digital Pressure Gage	DPI 104	3065743	00229625-08i4hT	04/04/2019
temp/humid	Extech	42280	10241210	1106743	05/24/2019
20,000 ft.lb	AKO Torque Transducer	TSD20011	3452	180807.19.31615	08/07/2019