

1600 E. Murdock Wichita, KS 67214

For Maintenance or Recalibration call:
Phone: (866) 384-3010
Fax: (316) 686-3151



Torque Wrench

Calibration Report For:

Bobcat Gas - Port Barre LA

19210 Hwy 190
Port Barre, LA 70577

Calibration Date:	12 Dec 2013
Calibration Number:	131212.20A.1
Temperature:	82.10°F
Humidity:	20.00% RH

Test Instrument Identification

Manufacturer:	SNAP-ON	Model:	QD4600
Type:	Manual wrench	Serial Number:	0509071770
Wrench Type:	2	Wrench Class:	A

Standard Testing Points or Instrument Settings		Instrument "As Found" Readings [1] (FT-LB)						Instrument "As Left" Readings [2] (FT-LB)						Low Limit	High Limit
		1	2	3	4	5	AVG	1	2	3	4	5	AVG	-4%	+4%
120	Reading	114.1	113.2	113.4	111.3	111.9	112.8	122.1	123.4	121.5	120.4	123.7	122.2	115.2	124.8
	Deviation %	-4.92	-5.67	-5.50	-7.25	-6.75	-6.02	1.75	2.83	1.25	0.33	3.08	1.85		
360	Reading	363.5	358.5	356.6	355.7	352.0	357.3	362.4	363.3	363.9	363.1	363.1	363.2	345.6	374.4
	Deviation %	0.97	-0.42	-0.95	-1.20	-2.23	-0.77	0.66	0.91	1.08	0.86	0.86	0.87		
600	Reading	588.8	585.3	588.4	589.0	587.1	587.7	599.0	598.8	602.3	601.8	601.6	600.7	576.0	624.0
	Deviation %	-1.87	-2.45	-1.94	-1.84	-2.15	-2.05	-0.17	-0.20	0.38	0.30	0.26	0.11		

Remarks

This manual wrench was tested in the absence of any side-loading.
Readings were taken at 20%, 60%, and 100% settings of the tool's maximum torque scale (if applicable).

(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, RESTRICTED WITH CHART

Test Instrument was left within applicable tolerance levels.

Technician Comments:



Jon Bucki, Calibration Technician

Notes

- This accredited organization maintains both A2LA accreditation to ISO/IEC 17025 for the specific tests/calibrations listed in A2LA Certificate #3040.01, and ISO 6789.
- Environmental conditions were held within MobileCal's standards of 60 to 88 degrees Fahrenheit and below 90% relative humidity.
- All readings have an expanded uncertainty of .83% for up to 50 ft-lb, .20% for up to 500 ft-lb and .15% for up to 2,000 ft-lb (k=2).
- Procedures for this calibration method are outlined in the MobileCal Quality Management Procedure Manual Version 3.0.
- 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).
- Customer acknowledges and agrees that MobileCal's standard sales terms and conditions are incorporated herein by reference and made a part of this calibration report.
- This document relates only to the test instrument listed on this certificate and cannot be reproduced, except in full, without written approval of MobileCal.
- Calibration performed and valid for Clockwise Direction only.
- This calibration document is followed by a Calibration Schedule page.



Calibration Laboratory Location #2: Certification Schedule

CAPACITY	ITEM	S/N	MODEL	CAL DUE DATE
THERMOMETER	EXTECH	NONE	445703	12/27/2013
2,000 FTLB	AKO	2933 28704	TSD 2011	11/24/2013
20,000 FTLB	AKO	2452 28097	TDS 20011	12/27/2013
1,000 FTLB	AKO	2453 28704	TDS 1011	11/24/2013
50 FTLB	AKO	4507	TDS111/050	11/24/2013
10,000 PSI	DRUCK	3151587	DPI104	12/27/2013
5,000 PSI	DRUCK	2827279	DPI104	12/27/2013
300 PSI	DRUCK	2784730	DPI104	12/27/2013
250 FTLB	CDI	509064812	2503-F-MT	12/27/2013
600 FTLB	CDI	78580025	6004-F-MT	12/27/2013
1500 FTLB	CDI	120850041	15005-F-MT	12/27/2013
Indicator	AKO	28704	TSD 6000-2	11/24/2013
Indicator	AKO	28097	TSD 6000-1	12/27/2013