

1600 E. Murdock Wichita, KS 67214

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



Torque Wrench

Calibration Report For:

ConocoPhillips - Borger

Conoco Phillips Pipeline
101 Spur 119 N
Borger, TX 79007

Calibration Date:	30 Mar 2011
Calibration Number:	110330.20A.11
Temperature:	Not Available
Humidity:	Not Available

Test Instrument Identification

Manufacturer:	P.I	Model:	C3FR250F
Type:	Manual wrench	Serial Number:	107617
Wrench Type:		Wrench Class:	

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	-5%	+5%
50	Reading	47.7	48.4	46.8	46.3	48.0	47.4	47.7	48.4	46.8	46.3	48.0	47.4	47.5	52.5
	Deviation %	-4.60	-3.20	-6.40	-7.40	-4.00	-5.12	-4.60	-3.20	-6.40	-7.40	-4.00	-5.12		
150	Reading	155.0	157.2	158.0	155.2	161.5	157.4	155.0	157.2	158.0	155.2	161.5	157.4	142.5	157.5
	Deviation %	3.33	4.80	5.33	3.46	7.66	4.92	3.33	4.80	5.33	3.46	7.66	4.92		
250	Reading	266.7	265.7	268.9	262.7	264.1	265.6	266.7	265.7	268.9	262.7	264.1	265.6	237.5	262.5
	Deviation %	6.68	6.28	7.56	5.08	5.64	6.24	6.68	6.28	7.56	5.08	5.64	6.24		

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: REJECTED, UNSAFE

Test Instrument is not safe for use and should be taken out of service.

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	10/24/2013
2,000 FTLB	AKO	2933 28704	TSD 2011	10/24/2013
20,000 FTLB	AKO	2452 28097	TDS 20011	10/24/2013
1,000 FTLB	AKO	2453 28704	TDS 1011	10/24/2013
50 FTLB	AKO	4507	TDS111/050	10/24/2013
10,000 PSI	DRUCK	3151587	DPI104	10/24/2013
5,000 PSI	DRUCK	2827279	DPI104	10/24/2013
300 PSI	DRUCK	2784730	DPI104	10/24/2013
250 FTLB	CDI	509064812	2503-F-MT	10/24/2013
600 FTLB	CDI	78580025	6004-F-MT	10/24/2013
1500 FTLB	CDI	120850041	15005-F-MT	10/24/2013
Indicator	AKO	28704	TSD 6000-2	10/24/2013
Indicator	AKO	28097	TSD 6000-1	10/24/2013