

1600 E. Murdock Wichita, KS 67214

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



Torque Wrench

Calibration Report For:

Williams - Mooresville NC

236 Transco Road
Mooresville, NC 28115

| | |
|---------------------|---------------|
| Calibration Date: | 17 May 2011 |
| Calibration Number: | 110517.23A.3 |
| Temperature: | Not Available |
| Humidity: | Not Available |

Test Instrument Identification

| | | | |
|---------------|---------------|----------------|-------------|
| Manufacturer: | SNAP-ON | Model: | QJR3250A |
| Type: | Manual wrench | Serial Number: | 03960072953 |
| 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 | 47.8 | 48.5 | 48.6 | 48.9 | 48.8 | 48.5 | 47.8 | 48.5 | 48.6 | 48.9 | 48.8 | 48.5 | 47.5 | 52.5 |
| | Deviation % | -4.40 | -3.00 | -2.90 | -2.20 | -2.40 | -2.98 | -4.40 | -3.00 | -2.90 | -2.20 | -2.40 | -2.98 | | |
| 150 | Reading | 148.3 | 148.4 | 148.3 | 146.8 | 146.7 | 147.7 | 148.3 | 148.4 | 148.3 | 146.8 | 146.7 | 147.7 | 142.5 | 157.5 |
| | Deviation % | -1.17 | -1.10 | -1.17 | -2.17 | -2.20 | -1.56 | -1.17 | -1.10 | -1.17 | -2.17 | -2.20 | -1.56 | | |
| 250 | Reading | 246.3 | 247.3 | 244.8 | 247.0 | 247.6 | 246.6 | 246.3 | 247.3 | 244.8 | 247.0 | 247.6 | 246.6 | 237.5 | 262.5 |
| | Deviation % | -1.50 | -1.10 | -2.10 | -1.20 | -0.98 | -1.38 | -1.50 | -1.10 | -2.10 | -1.20 | -0.98 | -1.38 | | |

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: *IN TOLERANCE*
Test Instrument was found within applicable tolerance levels.
(2) "As Left" Data: *IN TOLERANCE, RESTRICTED WITH CHART*
Test Instrument was left within applicable tolerance levels.

Technician Comments:



Russ Stagner, Calibration Technician

Notes

- A. 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.
B. Environmental conditions were held within MobileCal's standards of 60 to 88 degrees Fahrenheit and below 90% relative humidity.
C. 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).
D. Procedures for this calibration method are outlined in the MobileCal Quality Management Procedure Manual Version 3.0.
E. 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).
F. 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.
G. This document relates only to the test instrument listed on this certificate and cannot be reproduced, except in full, without written approval of MobileCal.
H. Calibration performed and valid for Clockwise Direction only.
I. This calibration document is followed by a Calibration Schedule page.



Calibration Laboratory Location #4: Certification Schedule

| COMPACITY | ITEM | S/N | MODEL | CAL DUE DATE |
|-------------|--------|------------|------------|--------------|
| THERMOMETER | EXTECH | NONE | 445703 | 2/18/2014 |
| 2,000 FTLB | AKO | 4509 | TSD2011 | 2/15/2014 |
| 20,000 FTLB | AKO | 4510 | TDS20011 | 2/15/2014 |
| 500 FTLB | AKO | 4508 | TDS5111 | 2/15/2014 |
| 50 FTLB | AKO | 4507 | TDS111/050 | 2/15/2014 |
| 10,000 PSI | DRUCK | 3388040 | DPI104 | 2/4/2014 |
| 5,000 PSI | DRUCK | 287285 | DPI104 | 2/4/2014 |
| 300 PSI | DRUCK | 2875169 | DPI104 | 2/4/2014 |
| 250 FTLB | CDI | 1209006590 | 2503-F-MT | 2/20/2014 |
| 600 FTLB | CDI | 708580024 | 6004-F-MT | 2/20/2014 |
| 1500 FTLB | CDI | 1109012822 | 15005-F-MT | 2/20/2014 |