



ALLTITE

total bolting solutions

For Maintenance or Recalibration Contact ALLTITE
 24 Hours a Day - 7 Days a Week
 Phone: (800) 498-6721 Fax: (316) 686-3151

Hydraulic Torque Wrench Calibration Report For: Precision Tractor

Calibration Date:	01 December 2006
Re-Call Date:	01 December 2007

Tool Identification

Manufacturer:	Wren	Serial Number:	07876
Model:	10MXTA	CID Number:	061201.06A.3

Standards Identification

Electronics:	Norbar / AMCS 15	Serial Number:	52948
Pressure Gauge:	Ashcroft / AMCS 20	Serial Number:	1008806
Val Date:	24-Aug-06	Re-Val Date:	24-Aug-07
Standard ID:	416618-1		
Transducer:	Norbar / AMCS 18	Serial Number:	25K 42658
Val Date:	12-Sep-06	Re-Val Date:	12-Sep-07
NIST/NPL:	822/266926-02		

Pressure vs. Torque Data

Pressure (PSI)	Torque (Ft-Lbs)					
	MFGR'S Standards	Last As Left Data	As Found Data	As Left Data	-3% Standards	+3% Standards
1000				1036		
2000				2113		
3000				3201		
4000				4291		
5000				5383		
6000				6470		
7000				7559		
8000				8650		
9000				9741		
10000				10829		

Remarks

"As Found" Data: NEW TOOL

No "As Found" data is available. This tool is either newly manufactured or has been rebuilt into like-new condition.

"As Left" Data: UNLIMITED USE

"As Left" data is within +/- 3% of manufacturer's standards. Tool may be returned to job applications with unlimited use.

Keith Fitzgeralds, Calibration Technician

Notes

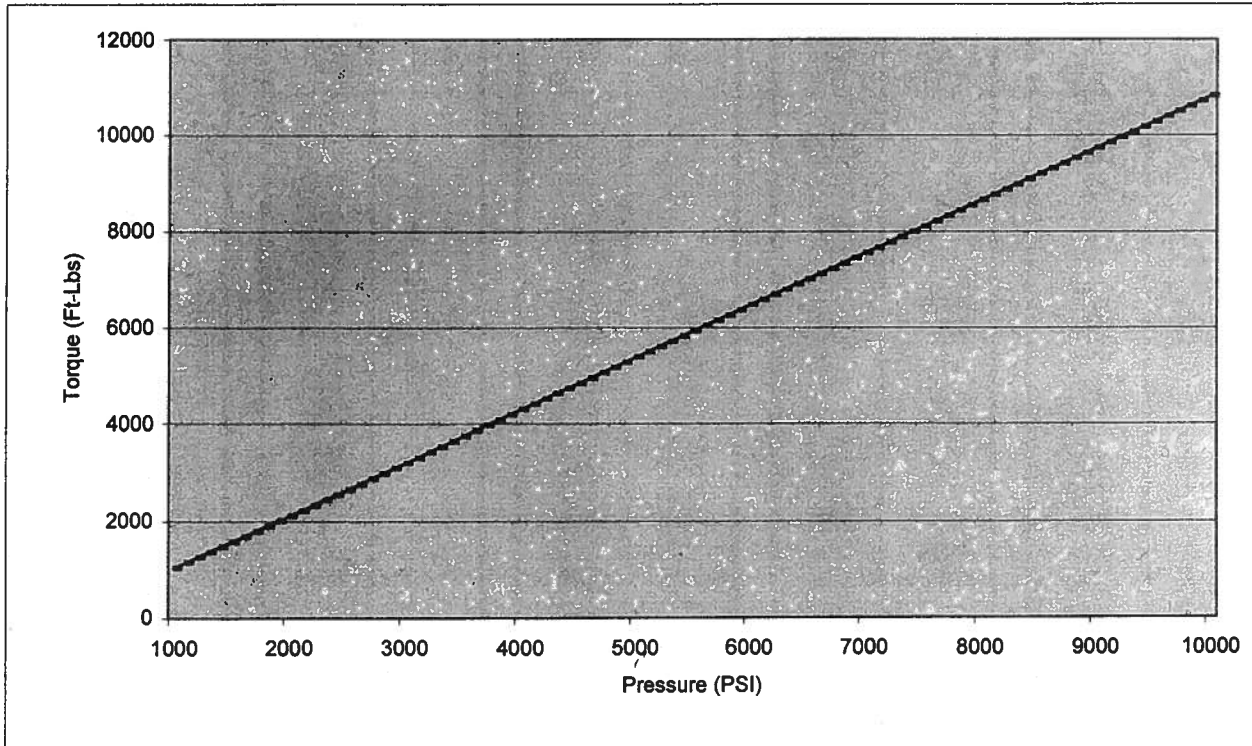
- This calibration is in compliance with ISO/IEC 17025:1999 (E), ASME B40.100:1998.
- Environmental conditions were held within applicable standards.
- Standards have an accumulated uncertainty of less than 1% with an assigned accuracy of approximately +/-2%.
- Procedures for this calibration are outlined in the appropriate AMCS instruction listed in the ALLTITE Mobile Calibration Services QA Manual Rev 1.004, (10/12/2004) pages 14-16.
- All transducers and associated equipment have been calibrated and are traceable to National Institute of Standards and Technology through reference #822/254143-94

Calibration Conversion Chart

Tool Manufacturer:	Wren
Tool Model:	10MXTA
Serial Number:	07876
Customer Control #:	061201.06A.3

Calibration Date:	01-Dec-06
Re-Cal. Date:	01-Dec-07

PSI	Ft-Lbs	PSI	Ft-Lbs	PSI	Ft-Lbs	PSI	Ft-Lbs	PSI	Ft-Lbs
0	0	2100	2222	4100	4400	6100	6579	8100	8759
0	0	2200	2331	4200	4509	6200	6688	8200	8868
0	0	2300	2439	4300	4619	6300	6797	8300	8977
0	0	2400	2548	4400	4728	6400	6906	8400	9086
0	0	2500	2657	4500	4837	6500	7015	8500	9196
0	0	2600	2766	4600	4946	6600	7123	8600	9305
0	0	2700	2875	4700	5055	6700	7232	8700	9414
0	0	2800	2983	4800	5165	6800	7341	8800	9523
0	0	2900	3092	4900	5274	6900	7450	8900	9632
1000	1036	3000	3201	5000	5383	7000	7559	9000	9741
1100	1144	3100	3310	5100	5492	7100	7668	9100	9850
1200	1251	3200	3419	5200	5600	7200	7777	9200	9959
1300	1359	3300	3528	5300	5709	7300	7886	9300	10067
1400	1467	3400	3637	5400	5818	7400	7995	9400	10176
1500	1575	3500	3746	5500	5927	7500	8105	9500	10285
1600	1682	3600	3855	5600	6035	7600	8214	9600	10394
1700	1790	3700	3964	5700	6144	7700	8323	9700	10503
1800	1898	3800	4073	5800	6253	7800	8432	9800	10611
1900	2005	3900	4182	5900	6361	7900	8541	9900	10720
2000	2113	4000	4291	6000	6470	8000	8650	10000	10829





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MODEL: PFM6BD-200

S.N.: 78135-ES

DATE: 0044

ORDER NO.: C4-112515