TEXAS DEPARTMENT OF AGRICULTURE

COMMISSIONER SID MILLER

Metrology Laboratory - 1258 CR 226 / P.O. Box 1518 - Giddings, Texas 78942

Phone: (979) 542-3231 - Fax: (888) 205-7741

Test Number
G-000006733

CALIBRATION CERTIFICATE

FOR

26 - 1000 lb, 7 - 50 lb
Test Weights
1 - Weight Kit

SUBMITTED BY

Bastrop Scale Company
P.O. Drawer 2100
Bastrop, Texas 78602

The standards and measurements of the Texas Department of Agriculture, Giddings Metrology Laboratory, are traceable to the SI and are part of a comprehensive measurement assurance program for ensuring continued accuracy and measurement traceability within the level of the uncertainty reported by this laboratory. The data below applies only to the artifacts identified in this report at the time of test. Only compliance with tolerance specifications were evaluated.

Test Date: 08/31/2018
Calibration Due: 08/31/2019

Received Date: 08/30/2018
Condition Received: Acceptable

Temperature Range: 18 °C to 27 °C
Relative Humidity Range: 40 % to 60 %
Procedure: NISTIR 6969, SOP No. 8, Modified Substitution
Balances: XPE604KMC-SN: B740759674, CCE60K2-SN:26803155, CCE5003-SN:21411465, CCE2004-SN:28601871 MSA225S-SN:28512376, CCE36-SN:28601985
Mass Standards: Giddings Metrology Laboratory Mass Echelon III Standards

The expanded standard uncertainty includes the standard uncertainty reported for the standard, the standard uncertainty for the measurement process, and a component of uncertainty to account for any observed deviations that have a significant effect on the calibration. No component is included in the expanded uncertainty for the effects of magnetism. The expanded uncertainty given is in compliance with BIPM JCGM 100:2008, Guide to the Expression of Uncertainty in Measurement (GUM), 2008, with a variable *k* representing a 95.45 % confidence level. Class F tolerance values are taken from NIST HB 105-1.

Note:
A positive correction indicates that the weight is heavier than the stated nominal value.
A negative correction indicates that the weight is lighter than the stated nominal value.

Conversions:

milligram (mg) to kilogram (kg):	kg	=	mg / 1000000
milligram (mg) to gram (g):	g	=	mg / 1000
milligram (mg) to pound (lb):	lb	=	mg x 0.00000220462262184877 6
milligram (mg) to ounce (oz):	oz	=	mg x 0.00003527396194958041

Philip Lockwood
Manager for Metrology Laboratory
Agency Representative

Preston Adachi
Metrologist
Legal Signatory

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P.O. Drawer 2100
Bastrop, Texas 78602

The artifacts described below have been compared to the standards of the State of Texas and were found to have the following mass corrections:

Temperature Range: 18 °C to 27 °C
Relative Humidity Range: 40 % to 60 %
SOP Used: NISTIR 6969, SOP No. 8, Modified Substitution

Nominal Value	Serial / ID #	As Found Mass Correction (mg)	As Left Mass Correction (mg)	Expanded Uncertainty (mg)	Tolerance Class	Tolerance (mg)
1000 lb	1007 -	-32400	-32400	6300	F	45000
1000 lb	1002 -	-58100	-1400 ❖	6300	F	45000
1000 lb	1016 -	-23100	-23100	6300	F	45000
1000 lb	1013 -	-52400	1000 ❖	6300	F	45000
1000 lb	1017 -	6400	6400	6300	F	45000
1000 lb	1020 -	-45900	100 ❖	6300	F	45000
1000 lb	1015 -	-20400	-20400	6300	F	45000
1000 lb	1003 -	-48300	-400 ❖	6300	F	45000
1000 lb	1014 -	-10800	-10800	6300	F	45000
1000 lb	1009 -	-32400	-32400	6300	F	45000
1000 lb	1001 -	-26800	-26800	6300	F	45000
1000 lb	1010 -	-49900	200 ❖	6300	F	45000
1000 lb	1006 -	-25400	-25400	6300	F	45000
1000 lb	1008 -	-39200	0 ❖	6300	F	45000
1000 lb	1005 -	-47100	800 ❖	6300	F	45000
1000 lb	1018 -	15400	15400	6300	F	45000
1000 lb	1011 -	-20900	-20900	6300	F	45000
1000 lb	1019 -	-33900	600 ❖	6300	F	45000
1000 lb	1012 -	59100	WET INTERNALS ■	6300	F	45000
1000 lb	1004 -	32900	32900	6300	F	45000
1000 lb	BS6261 -	-44100	700 ❖	6300	F	45000
1000 lb	BS6251 -	-4500	-4500	6300	F	45000
1000 lb	BS612 -	-17600	-17600	6300	F	45000
1000 lb	BS622 -	-27300	-27300	6300	F	45000
1000 lb	BS6181 -	-63200	FROZEN PLUG ■	6300	F	45000
1000 lb	BS621 -	-8400	-8400	6300	F	45000
50 lb	BS130 -	-16700	0 ❖	280	F	2300
50 lb	BS47 -	-2740	0 ❖	280	F	2300
50 lb	BS73 -	-19260	40 ❖	280	F	2300
50 lb	BS6218 -	-8210	0 ❖	280	F	2300
50 lb	BS134 -	-1280	-1280	280	F	2300

❖ *denotes a weight that was adjusted IAW NISTIR 6969, SOP 8.*
■ *denotes a weight that was rejected.*

The expanded uncertainty given is in compliance with BIPM JCGM 100:2008, Guide to the Expression of Uncertainty in Measurement (GUM), 2008, with a variable *k* representing a 95.45 % confidence level.

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Nominal Value	Serial / ID #	As Found Mass Correction (mg)	As Left Mass Correction (mg)	Expanded Uncertainty (mg)	Tolerance Class	Tolerance (mg)
50 lb	BS42 -	-23940	40 ❖	280	F	2300
50 lb	BS116 -	-9860	40 ❖	280	F	2300
5 lb	00021832 1	53	53	28	F	230
5 lb	00021832 2	49	49	28	F	230
5 lb	00021832 3	50	50	28	F	230
5 lb	00021832 4	52	52	28	F	230
5 lb	00021832 5	54	54	28	F	230
1 lb	00021832 1	15.1	15.1	8.5	F	70
1 lb	00021832 2	16.2	16.2	8.5	F	70
1 lb	00021832 3	15.3	15.3	8.5	F	70
1 lb	00021832 4	15.7	15.7	8.5	F	70
1 lb	00021832 5	16.1	16.1	8.5	F	70
.5 lb	00021832 -	13.0	13.0	5.3	F	45
.2 lb	00021832 -	4.9	4.9	2.1	F	18
.2 lb	00021832 *	4.2	4.2	2.1	F	18
.1 lb	00021832 -	2.4	2.4	1.1	F	9.1
.05 lb	00021832 -	0.49	0.49	0.53	F	4.5
.02 lb	00021832 -	0.57	0.57	0.21	F	1.8
.02 lb	00021832 *	0.31	0.31	0.21	F	1.8
.01 lb	00021832 -	0.45	0.45	0.18	F	1.5
.005 lb	00021832 -	0.46	0.46	0.15	F	1.2
.002 lb	00021832 -	0.46	0.46	0.10	F	0.87
.002 lb	00021832 *	0.41	0.41	0.10	F	0.87
.001 lb	00021832 -	0.217	0.217	0.083	F	0.70

❖ *denotes a weight that was adjusted IAW NISTIR 6969, SOP 8.*

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