

DEPARTMENT OF AGRICULTURE, CONSERVATION & FORESTRY DIVISION OF QUALITY ASSURANCE AND REGULATIONS 28 STATE HOUSE STATION

AUGUSTA, MAINE 04333-0028

Amanda E. Beal COMMISSIONER

Celeste Poulin Director

REPORT OF CALIBRATION MAINE TEST NUMBER 7688ME

Weight Kit: 5 lb to 0.001 lb

SN: 54

Date of Report: December 28, 2020

SUBMITTED BY: Maine Scale Company 4 Washington Street North Auburn, ME 04210

The mass standards described above have been compared with standards of the State of Maine, by modified substitution (NIST SOP 8), and were found to be, or adjusted to within NIST Handbook 105-1 Class "F" tolerances. Standards received in good condition.

Standards of the state of Maine are traceable to the National Institute of Standards and Technology through Oregon State test number OR-18-240-C. The Maine Laboratory is recognized by NIST, OWM, under the "Laboratory Metrology Program", at Mass Echelon III for 2020. Measurements by this laboratory are traceable to the National Standards at NIST.

The mass standards described above were found to have mass values at the time of test as indicated in the following tabulation. Weights received in an out of tolerance condition show a value in the "before adjustment" column. Calibrations performed by this laboratory comply with the requirements of ISO/IEC 17025:2017. SI conversion: 1-pound avoirdupois equals 0.45359237 kilograms.

Nominal & marking	Correction mg	NIST Class F Tolerance mg	Uncertainty	1
5 lb	-13	230	mg	Adjustment
5 lb *	1.5	230	28	MO No. Gas
5 lb **	0.5		28	
	-0.5	230	28	M 50 50

Page 1 of 3



PHONE: (207) 287-7587

FAX: (207) 287-7161

NVLAP Lab Code 200414-0

Maine Scale Company MAINE TEST NUMBER 7688ME

Page 2 of 3

Nominal & marking	Correction mg	NIST Class F Tolerance mg	Uncertainty	Before
5 lb ***	5		mg	Adjustment
5 lb ****		230	28	
	1	230	28	No. wile with
1 lb	32.9	70	8.7	NOT BEE SHOW
1 lb *	23.9	70	8.7	
1 lb **	34.9	70	8.7	70 44 44
1 lb ***	21.9	70	8.7	Ma day 144
1 lb ****	29.9	70	8.7	Pri de pa
0.5 lb	13.0	45	5.9	
0.2 lb	5.1	18	3.3	***
0.2 lb *	3.9	18	3.3	The same was
0.1 lb	2.2	9.1	1.1	77 to 44
0.05 lb	0.00	4.5	0.55	THE REAL PROPERTY.
0.02 lb	0.61	1.8	0.23	AND 100
0.02 lb *	0.22	1.8	0.23	
0.01 lb	0.66	1.5	0.18	
0.005 lb	0.94	1.2		90 to
0.002 lb	0.54	0.87	0.15	71 10 10
0.002 lb *	0.48	The state of the s	0.11	
0.001 lb	The state of the s	0.87	0.11	
0.001 10	0.499	0.70	0.090	40 in m

Environmental conditions at time of test:

Temperature: 20.8 °C Relative Humidity: 40.3 %

Barometric Pressure: 752.89 mmHg

Data reduction sheets are on file at the laboratory.

The uncertainties shown with reported values are calculated on the conventional mass values and expressed as the sum of the following sources of inaccuracy; (1) Type B, systematic errors relative to the reference standard and procedure used, including bias, and (2) Type A, random errors determined by the standard deviation of the measurement process. Type A and Type B uncertainties are combined by the root sum squared method and multiplied by a coverage factor to represent approximately a 95% confidence level. All mass values have been determined as "conventional mass" with respect to stainless steel with a density of 8.0 g/cm³ at 20 °C. The combined measurement uncertainty and measurement result have been taken in to account when issuing statements of compliance.



PHONE: (207) 287-7587

Maine Scale Company MAINE TEST NUMBER 7688ME

Page 3 of 3

Date Received: December 14, 2020 Date of Test: December 17, 2020 Calibration Due: December 31, 2022 Calibration by: Bradford Bachelder

Bradford Bachelder, Metrologist

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DEPARTMENT OF AGRICULTURE, CONSERVATION & FORESTRY DIVISION OF QUALITY ASSURANCE AND REGULATIONS 28 STATE HOUSE STATION AUGUSTA, MAINE 04333-0028

Amanda E. Beal COMMISSIONER

Celeste Poulin

REPORT OF CALIBRATION MAINE TEST NUMBER 7684ME

(39) 50 lb. Cast Iron Weights Date of Report: December 28, 2020

SUBMITTED BY: Maine Scale Company 4 Washington Street North Auburn, ME 04210

The mass standards described above have been compared with standards of the State of Maine, by modified substitution, and were found to be, or adjusted to within NIST Handbook 105-1 Class "F" tolerances.

Standards of the state of Maine are traceable to the National Institute of Standards and Technology through Oregon State test number OR-18-240-C. The Maine Laboratory is recognized by NIST, OWM, under the "Laboratory Metrology Program", at Mass Echelon III for 2020. Measurements by this laboratory are traceable to the National Standards at NIST. The mass standards described above were found to have mass values at the time of test as indicated in the following tabulation. Weights received in an out of tolerance condition show a value in the "before adjustment" column. Weights received in fair condition.

The uncertainties shown with reported values are calculated on the conventional mass values and expressed as the sum of the following sources of inaccuracy; (1) Type B, systematic errors relative to the reference standard and procedure used, including bias, and (2) Type A, random errors determined by the standard deviation of the measurement process. Type A and Type B uncertainties are combined by the root sum squared method and multiplied by a coverage factor of 2.01 (k=2.01) representing a 95% confidence level. All mass values have been determined as "conventional mass" with respect to stainless steel with a density of 8.0 g/cm³ at 20 °C. The combined measurement uncertainty and measurement result have been taken in to account when issuing statements of compliance.

Data reduction sheets are on file at the laboratory.

PHONE: (207) 287-7587

Page 1 of 3

Maine Scale Company Maine Test Number 7684ME

Page 2 of 3

Serial	Nominal	Correction	NIST Class F	Uncertainty	Before
Number		(grams)	Tolerance	(grams)	adjustmen
	50.11		(grams)		(grams)
	50 lb.	0.69	2.3	0.13	20) 500 800
Section 2 and the process and the section 2 and	50 lb.	-1.06	2.3	0.13	PPR GIS NO.
	50 lb.	1.69	2.3	0.13	500 to 600
	50 lb.	-0.08	2.3	0.13	70 55 65
	50 lb.	0.18	2.3	0.13	en so sea
	50 lb.	0.15	2.3	0.28	and the same
	50 lb.	-2.01	2.3	0.28	NOTE THE ADDR
	50 lb.	-1.96	2.3	0.28	pilet test beer
	50 lb.	0.86	2.3	0.28	
	50 lb.	-1.19	2.3	0.28	Per est 200
	50 lb.	1.56	2.3	0.28	Diff and you
***************************************	50 lb.	1.02	2.3	0.28	See that his
	50 lb.	-0.22	2.3	0.28	and one ball
	50 lb.	-0.68	2.3	0.28	Not real lose
	50 lb.	-0.06	2.3	0.28	600 to 160
	50 lb.	0.23	2.3	0.28	100 CM 404
	50 lb.	1.15	2.3	0.28	500 bid 600
	50 lb.	1.22	2.3	0.28	74 No No
	50 lb.	1.46	2.3	0.28	MR are ma
	50 lb.	0.57	2.3	0.28	** es as
	50 lb.	-0.76	2.3	0.28	
	50 lb.	-1.38	2.3	0.28	Sit to me
	50 lb.	-1.09	2.3	0.28	We see no
	50 lb.	-1.85	2.3	0.28	NO NA MP
	50 lb.	-0.79	2.3	0.28	No he he
	50 lb.	0.55	2.3	0.28	Note that age
	50 lb.	0.35	2.3	0.28	-4.70
	50 lb.	0.50	2.3	0.28	-3.87
	50 lb.	0.32	2.3	0.28	-4.00
	50 lb.	-1.99	2.3	0.28	-4.00
	50 lb.	-1.78	2.3	0.28	
	50 lb.	-1.97	2.3	0.28	this trie name
	50 lb.	0.70	2.3	0.28	2 0 4
	50 lb.	0.60	2.3	0.28	-3.84 -2.96
	50 lb.	-0.36	2.3	0.28	-2.90



Maine Scale Company Maine Test Number 7684ME Page 3 of 3

Serial Number	Nominal	Correction (grams)	NIST Class F Tolerance (grams)	Uncertaint y (grams)	Before adjustment (grams)
60	50 lb.	-1.99	2.3	0.28	(grains)
70	50 lb.	0.31	2.3	0.28	NO 104 104
71	50 lb.	0.56	2.3	0.28	-5.06
310	50 lb.	-0.83	2.3	0.28	-5.00

Calibrations performed by this laboratory comply with the requirements of ISO/IEC 17025:2017. SI conversion: 1-pound avoirdupois equals <u>0.45359237</u> kilograms.

Environmental conditions at time of test:

Temperature: 20.1 °C Relative Humidity: 40.9 % Pressure: 758.26 mmHg

Date Received: December 15, 2020 Date of Test: December 15, 2020 Calibration Due: December 31, 2021 Calibration by: Bradford Bachelder

Bradford Bachelder, Metrologist

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PHONE: (207) 287-7587



DEPARTMENT OF AGRICULTURE, CONSERVATION & FORESTRY DIVISION OF QUALITY ASSURANCE AND REGULATIONS 28 STATE HOUSE STATION AUGUSTA, MAINE 04333-0028

Amanda E. Beal COMMISSIONER

Celeste Poulin Director

REPORT OF CALIBRATION MAINE TEST NUMBER 7685ME

(5) 500 lb & (30) 1000 lb Cast Iron Weights Date of Report: December 28, 2020

SUBMITTED BY: Maine Scale Company 4 Washington Street North Auburn, ME 04210

The mass standards described above have been compared with standards of the State of Maine, by modified substitution, and were found to be, or adjusted to within NIST Handbook 105-1 Class "F" tolerances.

Standards of the state of Maine are traceable to the National Institute of Standards and Technology through Oklahoma Bureau of Standards test no. OBS 17-1193. The Maine Laboratory is recognized by NIST, OWM, under the "Laboratory Metrology Program", at Mass Echelon III for 2020. Measurements by this laboratory are traceable to the National Standards at NIST.

The mass standards described above were found to have mass values at the time of test as indicated in the following tabulation. Weights received in an out of tolerance condition show a bold value in the "before adjustment" column. Weights received in good condition. The combined measurement uncertainty and measurement result have been taken in to account when issuing statements of compliance.

The uncertainties shown with reported values are calculated on the conventional mass values and expressed as the sum of the following sources of inaccuracy; (1) Type B, systematic errors relative to the reference standard and procedure used, including bias, and (2) Type A, random errors determined by the standard deviation of the measurement process. Type A and Type B uncertainties are combined by the root sum squared method and multiplied by a coverage factor of 2 (k=2) representing approximately a 95 % confidence level. All mass values have been determined as "conventional mass" with respect to stainless steel with a density of 8.0 g/cm³ at 20 °C.

Page 1 of 3

CALIBRATION TO

PHONE: (207) 287-7587

Maine Scale Company Maine Test Number 7685ME

Page 2 of 3

Serial	Nominal	Correction	NIST Class F	Uncertainty	Before
Number		g	Tolerance, g	g	Adjustment
					g
74	500 lb.	-18.7	23	3.1	yes had bee
75	500 lb.	-0.7	23	3.1	300 Mile Volk
76	500 lb.	-7.0	23	3.1	spe tale also
77	500 lb.	-10.6	23	3.1	proj alla shek
79	500 lb.	-12.7	23	3.1	pos ties top
1	1000 lb.	-30.7	45	5.7	SULP MANY ONE
2	1000 lb.	17.8	45	5.7	
3	1000 lb.	21.7	45	5.7	
4	1000 lb.	-18.3	45	5.7	Note that the
5	1000 lb.	34.5	45	5.7	
6	1000 lb.	0.7	45	5.7	The are are
7	1000 lb.	31.6	45	5.7	
8	1000 lb.	21.6	45	5.7	
9	1000 lb.	-36.2	45	5.7	see we
10	1000 lb.	27.9	45	5.7	Silir and mark
11	1000 lb.	12.7	45	5.7	55.6
12	1000 lb.	7.0	45	5.7	Mini vida dan
13	1000 lb.	0.1	45	5.7	may tree stops
14	1000 lb.	32.1	45	5.7	PP 100
15	1000 lb.	-19.1	45	5.7	AND MAIN TOPA
16	1000 lb.	-0.9	45	5.7	
60	1000 lb.	19.8	45	5.7	SET SING YOU
61	1000 lb.	-12.4	45	5.7	pie sex
62	1000 lb.	-20.7	45	5.7	
63	1000 lb.	-27.2	45	5.7	7= 00 Au
64	1000 lb.	-33.5	45	5.7	
65	1000 lb.	-28.9	45	5.7	
66	1000 lb.	-10.6	45	5.7	20 20 30
67	1000 lb.	0.4	45	5.7	Processing and the second seco
68	1000 lb.	7.1	45	5.7	-48.2
69	1000 lb.	27.8	45	5.7	
70	1000 lb.	10.1	45	5.7	-50.9
71	1000 lb.	-38.2	45	5.7	-30.9
72	1000 lb.	25.9	45	5.7	Note that any
73	1000 lb.	-24.6	45	5.7	the six say



Maine Scale Company Maine Test Number 7685ME Page 3 of 3

Environmental conditions at time of test:

Temperature: 20.6 °C Relative Humidity: 40.0 % Pressure: 768.02 mmHg

Data reduction sheets are on file at the laboratory.

Calibrations performed by this laboratory comply with the requirements of ISO/IEC 17025:2017.

SI conversion: 1-pound avoirdupois equals 0.45359237 kilograms.

Date Received: December 14, 2020 Date of Test: December 16, 2020 Calibration Due: December 31, 2021 Calibration by: Bradford Bachelder

Bradford Bachelder, Metrologist

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DEPARTMENT OF AGRICULTURE, CONSERVATION & FORESTRY DIVISION OF QUALITY ASSURANCE AND REGULATIONS 28 STATE HOUSE STATION AUGUSTA, MAINE 04333-0028

Amanda E. Beal COMMISSIONER

Celeste Poulin DIRECTOR

REPORT OF CALIBRATION MAINE TEST NUMBER 7686ME

Metric Weight Kit: 5 kg to 1 g

SN: 28620

Date of Report: December 28, 2020

SUBMITTED BY:

Maine Scale Company 4 Washington Street North Auburn, ME 04210

The mass standards described above have been compared with standards of the State of Maine, by modified substitution (NIST SOP 8), and were found to be, or adjusted to within NIST Handbook 105-1 Class "F" tolerances. Weights received in good condition.

Standards of the State of Maine are traceable to the National Institute of Standards and Technology through Oregon State test number OR-18-240-C. The Maine Laboratory is recognized by NIST, OWM, under the "Laboratory Metrology Program", at Mass Echelon III for 2020. Measurements by this laboratory are traceable to the National Standards at NIST.

The mass standards described above were found to have mass values at the time of test as indicated in the tabulation on the following page. Weights received in an out of tolerance condition will show a value in a "before adjustment" column if required.

The uncertainties shown with reported values are calculated on the conventional mass values and expressed as the sum of the following sources of inaccuracy; (1) Type B, systematic errors relative to the reference standard and procedure used, including bias, and (2) Type A, random errors determined by the standard deviation of the measurement process. Type A and Type B uncertainties are combined by the root sum squared method and multiplied by a coverage factor of 2.02 (k=2.02) representing approximately a 95% confidence level. All mass values have been determined as "conventional mass" with respect to stainless steel with a density of 8.0 g/cm³ at 20 °C.

The combined measurement uncertainty and measurement result have been taken in to account when issuing statements of compliance.

Page 1 of 3

CALIBRATION TO

Maine Scale Company MAINE TEST NUMBER 7686ME

Page 2 of 3

Calibrations performed by this laboratory comply with the requirements of ISO/IEC 17025:2017.

Environmental conditions at time of test:

Temperature: 20.2 °C Relative Humidity: 40.3 %

Barometric Pressure: 753.05 mmHg.

Data reduction sheets are on file at the laboratory.

Nominal &	Correction	NIST Class F	Uncertainty	Before
Marking	mg	Tolerance mg	mg	Adjustment
5 kg	164	500	59	ma nga asa
5 kg *	158	500	59	No see see
2 kg	60	200	24	W 40. 101
2 kg *	67	200	24	-
1 kg	32	100	12	FF 6m 404
500 g *	18.0	70	8.5	ton Nam ton
500 g **	32.0	70	8.5	set to so
500 g ***	21.0	70	8.5	
500 g ****	29.0	70	8.5	wat was tak
500 g *****	25.0	70	8.5	
200 g	14.5	40	5.2	NAME THE TAX
200 g *	10.5	40	5.2	and and
100 g	3.9	20	2.4	
50 g	3.9	10	1.2	
20 g	0.99	4	0.49	75 to 45
20 g *	0.76	4	0.49	and the late
10 g	0.43	2	0.24	95 MA mar
5 g	0.35	1.5	0.18	that time you.
2 g	0.06	1.1	0.13	
2 g *	0.37	1.1	0.13	inc day has
1 g	0.43	0.90	0.11	

Date Received: December 14, 2020 Date of Test: December 17, 2020 Calibration Due: December 31, 2022 Calibration by: Bradford Bachelder

Bradford Bachelder, Metrologist



Maine Scale Company MAINE TEST NUMBER 7686ME

Page 3 of 3

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DEPARTMENT OF AGRICULTURE, CONSERVATION & FORESTRY DIVISION OF QUALITY ASSURANCE AND REGULATIONS 28 STATE HOUSE STATION AUGUSTA, MAINE 04333-0028

Amanda E. Beal COMMISSIONER

Celeste Poulin Director

REPORT OF CALIBRATION MAINE TEST NUMBER 7687ME

Weight Kit: 10 lb to 0.01 lb

SN: 28619

Date of Report: December 28, 2020

SUBMITTED BY:

Maine Scale Company 4 Washington Street North Auburn, ME 04210

The mass standards described above have been compared with standards of the State of Maine, by modified substitution (NIST SOP 8), and were found to be, or adjusted to within NIST Handbook 105-1 Class "F" tolerances. Standards received in good condition.

Standards of the state of Maine are traceable to the National Institute of Standards and Technology through Oregon State test number OR-18-240-C. The Maine Laboratory is recognized by NIST, OWM, under the "Laboratory Metrology Program", at Mass Echelon III for 2020. Measurements by this laboratory are traceable to the National Standards at NIST.

The mass standards described above were found to have mass values at the time of test as indicated in the following tabulation. Weights received in an out of tolerance condition show a value in the "before adjustment" column. Calibrations performed by this laboratory comply with the requirements of ISO/IEC 17025:2017. SI conversion: 1-pound avoirdupois equals 0.45359237 kilograms.

Nominal & marking	Correction mg	NIST Class F Tolerance mg	Uncertainty mg	Before Adjustment
10 lb	65	450	55	
10 lb *	12	450	55	
5 lb	38	230	28	
2 lb	31	91	12	

Page 1 of 3

PHONE: (207) 287-7587

Maine Scale Company MAINE TEST NUMBER 7687ME

Page 2 of 3

Nominal & marking	Correction mg	NIST Class F Tolerance mg	Uncertainty mg	Before Adjustment
2 lb *	30	91	12	
1 lb	31.9	70	8.7	MA yes yes
0.5 lb	20.0	45	5.9	
0.2 lb	7.7	18	3.3	ps 400 Mg
0.2 lb *	5.0	18	3.3	mar and any
0.1 lb	3.6	9.1	1.1	Mile Wall No.
0.05 lb	1.93	4.5	0.55	
0.02 lb	0.26	1.8	0.23	90 AN MA
0.02 lb *	0.57	1.8	0.23	
0.01 lb	0.25	1.5	0.18	

Environmental conditions at time of test:

Temperature: 20.5 °C Relative Humidity: 40.6 %

Barometric Pressure: 753.07 mmHg

Data reduction sheets are on file at the laboratory.

The uncertainties shown with reported values are calculated on the conventional mass values and expressed as the sum of the following sources of inaccuracy; (1) Type B, systematic errors relative to the reference standard and procedure used, including bias, and (2) Type A, random errors determined by the standard deviation of the measurement process. Type A and Type B uncertainties are combined by the root sum squared method and multiplied by a coverage factor to represent approximately a 95% confidence level. All mass values have been determined as "conventional mass" with respect to stainless steel with a density of 8.0 g/cm³ at 20 °C. The combined measurement uncertainty and measurement result have been taken in to account when issuing statements of compliance.



PHONE: (207) 287-7587

Maine Scale Company MAINE TEST NUMBER 7687ME Page 3 of 3

Date Received: December 14, 2020 Date of Test: December 17, 2020 Calibration Due: December 31, 2022 Calibration by: Bradford Bachelder

Bradford Bachelder, Metrologist

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