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

PAUL R. LEPAGE
GOVERNOR

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COMMISSIONER

Ronald E. Dyer
Director

REPORT OF CALIBRATION
MAINE TEST NUMBER 6848ME

(9) 0.5 lb stainless correction weights
SN: NY12 29
Date of Report: May 25, 2016

SUBMITTED BY:
Advanced Scale, Inc.
13 Delta Drive – Unit 6
Londonderry, NH 03053

The mass standards described above have been compared with standards of the State of Maine by NIST SOP 8 modified substitution (Rev. 2014) 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 NH test number 2015-012. The Maine Laboratory is recognized by NIST, OWM, under the "Laboratory Metrology Program", at Mass Echelon III for 2016. 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 a "before adjustment" column.

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 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/cm^3 at 20 degrees C.

Calibrations performed by this laboratory comply with the requirements of ISO/IEC 17025-2010.
SI conversion: one pound equals 0.45359237 kilograms.

PHONE: (207) 287-7587 FAX: (207) 287-7161

NVLAP Lab Code 200414-0

Advanced Scale, Inc.

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Nominal & Marking	Correction mg	NIST Class F Tolerance mg	Uncertainty mg
0.5 lb-1	13.0	45	5.9
0.5 lb-2	12.0	45	5.9
0.5 lb-3	14.0	45	5.9
0.5 lb-4	19.0	45	5.9
0.5 lb-5	35.0	45	5.9
0.5 lb-6	21.0	45	5.9
0.5 lb-7	22.0	45	5.9
0.5 lb-8	19.0	45	5.9
0.5 lb-9	17.0	45	5.9

Laboratory environmental conditions:
Temperature: 19.9 °C
Humidity: 40.3%
Pressure: 754.85 mmHg
Data reduction sheets are on file at the laboratory.

Date Received: May 20, 2016
Date of Test: May 25, 2016
Calibration Due: May 31, 2017
Calibrated By: Bradford Bachelder

Bradford Bachelder, Metrologist

Calibrations performed at 333 Cony Road, Augusta ME.

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