



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

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REPORT OF CALIBRATION
MAINE TEST NUMBER 6846ME
 3000 lb Weight Cart
 SN: 092112K
 Date of Report: May 20, 2016

SUBMITTED BY:
 Advanced Scale, Inc
 13 Delta Dr Unit 6
 Londonderry, NH 03053

The mass standard described above has been compared with standards of the State of Maine by NIST SOP 33 using a modified double substitution weighing design. Standards of the state of Maine are traceable to the National Institute of Standards and Technology through NIST Test Number 822/263897-00.

The Maine Laboratory is recognized by NIST, WMD, 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.

Nominal	Correction as left lb	Uncertainty lb	Tolerance lb	As Found lb
3000 lb	0.56	0.24	1.00	1.90

Calibrations performed by this laboratory comply with the requirements of ISO/IEC 17025:2010

SI conversion: 1-pound avoirdupois equals 0.45359237 kilograms.




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Environmental conditions at time of test conform to NIST SOP 33 requirements. Data reduction sheets and seal information 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, and (2) Type A, random errors determined by the D^* method of converting average range of replicate measurements to 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 ($K=2.08$) representing approximately a 95% confidence interval. 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.

Date Received: May 20, 2016
Date of Test: May 20, 2016
Calibration due: May 31, 2017
Calibration by: Bradford Bachelder


Bradford Bachelder, Metrologist

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Calibrations performed at 333 Cony Road, Augusta ME.

