

Food Safety & Consumer Protection Div Consumer Protection Section

116 State Street Montpelier, VT 05620 **agriculture.vermont.gov**

[phone] 802-828-2426 [fax] 802-828-5983

Agency of Agriculture Food & Markets

[fax] 802-828-5983

Vermont Weights & Measures Metrology Lab TEST REPORT 3000 lb Weight Cart

Submitted by:

Advanced Scale 13 Delta Drive Unit 6 Londonderry, NH 03053-2372 603-626-0242

Vermont Test Number: VT23-287

Date of Test: October 31, 2023 Date Received: October 27, 2023 Manufacturer: Kanawha Scales & Systems Model: 3K Serial Number: 092112K Nominal Mass: 3000 lb

The weight cart described above have been compared to the standards of the State of Vermont, by NISTIR 6969, SOP 33 (2019) with SOP 4 Modifications using the SXXS method, and have been found at time of test, or been adjusted, to meet the tolerance requirements stated in NIST Handbook 105-8 Specifications and Tolerances for Weight Carts (2019). Weights carts are considered in tolerance when the absolute value of the conventional mass correction plus the uncertainty is less than or equal to the specified tolerance, in this calculation no correction for air bouyancy is made. Carts received in an out of tolerance condition show a "Conventional Mass as Submitted" value.

Conventional Mass:	2999.89 lb	Environmental Conditions During Calibration
Conventional Mass	-0.11 lb	Temperature: 21.0 °C to 21.6 °C
Correction:	-0.11 10	Relative Humidity: 41.3 % to 42.2 %
Conventional Mass Correction:	-49 grams	Barometric Pressure: 765.00 mmHg to 766.00 mmHg
Uncertainty:	53 grams	
Tolerance:	475 grams	Technician: Scott Dolan
Conventional Mass as Submitted:	3001.13 lb	Calibration Due: Not Specified

The uncertainties shown are expressed as the sum of the following sources of inaccuracy; (1) Type B, systematic uncertainties relative to the reference standard and procedure used, and (2) Type A, random uncertainties 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 2.12631338003558 (k=2.12631338003558) for a 95 %

Standards of the state of Vermont are traceable to the SI and National Institute of Standards and Technology (NIST). The Vermont laboratory is recognized by NIST, WMD under the "Metrology Laboratory Program" for mass calibrations at accuracy level Echelon III.

SI conversion - 1 lb is equal to 0.45359237 kg Calibration Performed at:

163 Admin Drive Randolph Center, VT 05061

Scott Dolan, Weights & Measures Specialist



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Vermont Weights & Measures Metrology Lab INSPECTION CHECKLIST 3000 lb Weight Cart

Submitted by:

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Fluid Levels:	Sealed
Engine oil: Full	No
Hydraulic Fluid: Below Site Level	Yes
Battery Acid: Good	Yes
Liquid Fuel: Full	No

Controls:	Functioning Properly
Service Break:	Yes
Parking Break:	Yes
Remote:	N/A

Adjustment Cavity:

Accessible: Yes Sealed: Yes Approximate Capacity: 150 lb

Tires:

Revised 11-3-20 SD

End of Report

Number of Axles: 2 Number of Tires: 4 Size of Tires: 21" Diameter Sealed Wheel Bearings: No

Fluid drain tubes don't extend beyond body Drain holes present to prevent water accumulation Railings permanently fixed or solid

Any maintenance, repairs, replacement of parts, or damage to weight cart or its components will likely result in an outof-tolerance condition; therefore, maintenance or replacement of components such as batteries, tires, filters, or other items listed on the checklist, require calibration of the weight cart prior to subsequent use. End of Test Report



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General Condition of Weight Cart:

Cart is in generally good condition and has recently had paint touched up. Make sure to wipe off any excess grease when greasing fittings.

Seal Numbers VT W&M 000857, 004911, and 002325