VERMONT

Food Safety & Consumer Protection Div [phone] 802-828-2426 *Agency of Agriculture Food & Markets*
Consumer Protection Section [fax] 802-828-5983
116 State Street
Montpelier, VT 05620
agriculture.vermont.gov

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: VT24-222
Date of Test: October 28, 2024
Date Received: October 25, 2024
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:	2999.66 lb
Conventional Mass Correction:	-0.34 lb
Conventional Mass Correction:	-154 grams
Uncertainty:	60 grams
Tolerance:	475 grams
Conventional Mass as Submitted:	

Environmental Conditions During Calibration
Temperature: 20.8 ºC to 21.5 ºC
Relative Humidity: 42.5 % to 45.4 %
Barometric Pressure: 773.00 mmHg to 773.00 mmHg

Technician: Scott, Sumner
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 2.10509059998956 (k=2.10509059998956) 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
Digitally signed by Scott Dolan
Date: 2024.10.28 13:38:28 -04'00'

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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Serial Number: 092112K
Nominal Mass: 3000 lb
Nominal Mass Marked: Yes
Powered by: Gasoline Motor

Fluid Levels:		**Sealed**
Engine oil:	Full	No
Hydraulic Fluid:	Below Site Level	No
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:	
Number of Axles:	2
Number of Tires:	4
Size of Tires:	21"
Sealed Wheel Bearings:	No

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.

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 out-of-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