



Receipt Date: March 31, 2025
Cal. Date: April 1, 2025
Certificate Date: April 1, 2025

Certificate No.: 403470-1
Set Serial No.: 040119K
Barcode: 204418

Calibration Certificate

HAWKEYE STATE SCALE
1357 HWY 965 NW
SWISHER, IA 52338

Contact: ANGIE WELCHER
Phone: 319-364-4173
PO Number: None
Procedure: NIST SOP 33 (2019)
Technician ID: 26

Item(s) Submitted: 3000 lb weight cart
Manufacturer: KANAWHA
Cart Type: Gasoline
Equipment ID: None
Condition: ACCEPTABLE
Temperature: 21.0 °C
Pressure: 737.1 mmHg
Relative Humidity: 48.1 %

Nominal Value	Serial No.	<u>CM Correction (g)</u>		<u>NIST HB105-8 Class</u>		<i>k</i>	U (g)
		As Received	As Left	As Received	As Left		
3000 lb	040119K	115	115	Meets	Meets	2.03	62

Artifact conformance to NIST HB105-8 (2019) specifications were evaluated except for tank cross sectional area, tank volume, tire tread pattern, filtration systems, sealed wheel bearings, functional remote control, or scale plate lengths and widths. Tolerances were evaluated using NIST HB105-8 (2019) and MN SAP 20 (2020), which combines the conventional mass (CM) correction of the weight and the uncertainty of the measurement to evaluate the class. No other specifications were evaluated. The above CM corrections correspond to the mass scale versus 8.0 g/cm³ density and an air density of 1.2 mg/cm³ at 20 °C. Uncertainty calculations contain the components in NIST SOP 33 (2019) and conform to the ISO/IEC Guide to the Expression of Uncertainty in Measurement (2008), including coverage factors (*k*) calculated at the approximate 95.45 % confidence level. Calibration of items listed above used State of Minnesota Standards, which are currently in control. These standards are traceable to the SI through NIST. Calibration processes are monitored and in control at the time of calibration. This calibration certificate shall not be reproduced, except in full, without written approval from the state of MN metrology laboratory, and the results only apply to items identified on this certificate.

Calvin Crouch

Metrologist

Reviewed by:

Anna Pierce

Metrologist, Signatory

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