14305 Southcross Drive #150 Burnsville, MN 55306-7008 mn.gov/commerce/ 651.539.1555 FAX 952.435.4040 An equal opportunity employer

Receipt Date: Calibration Date: July 25, 2022 July 28, 2022

Certificate Date: July 28, 2022 Certificate No.:

AVDP Weight Kit

RICE LAKE

401647-1

Set Serial No.: Barcode:

HSS 2 P 200520

Calibration Certificate

HAWKEYE STATE SCALE

1357 HWY 965 NW SWISHER, IA 52338

Contact:

ANGIE WELCHER

Phone:

319-364-4173

PO Number: Procedure: Technician ID: 10467

NIST SOP 8B (2019) 24

Item(s) Submitted: Manufacturer:

Weight Type: Equipment ID: Condition:

Pressure:

I & II None **ACCEPTABLE**

19.0 °C Temperature: Relative Humidity:

736.6 mmHg 49.7 %

			Relative Hammarty.			1.1 10			
	al	Serial	CM Correction (mg)		NIST Class F				
	e ve	No.	As Received	As Left	As Received	As Left	k	U (mg)	
)	lb	2	6	6	Meets	Meets	2.03	11	1
)	lb		112	112	Meets	Meets	2.03	11	
)	lb		78.1	78.1	Meets	Meets	2.03	5.5	
)	lb		19.7	19.7	Meets	Meets	2.03	1.1	
)	lb		21.9	21.9	Meets	Meets	2.03	1.1	
)	lb		16.9	16.9	Meets	Meets	2.03	1.1	
)	lb		18.9	18.9	Meets	Meets	2.03	1.1	
)	: lb		25.7	25.7	Meets	Meets	2.03	1.1	
Z	OZ		8.22	8.22	Meets	Meets	2.03	0.30	
Z	OZ		3.30	3.30	Meets	Meets	2.03	0.30	
Z	OZ		5.93	5.93	Meets	Meets	2.03	0.30	
Z	OZ		1.93	1.93	Meets	Meets	2.03	0.11	
Z	OZ		2.51	2.51	Meets	Meets	2.03	0.11	
Z	OZ		0.70	0.70	Meets	Meets	2.03	0.11	
Z	OZ		0.168	0.168	Meets	Meets	2.04	0.074	
Z	OZ		0.689	0.689	Meets	Meets	2.04	0.074	
Z	OZ		0.801	0.801	Meets	Meets	2.04	0.055	
Z	OZ		0.265	0.265	Meets	Meets	2.04	0.055	
Z Z Z	OZ OZ OZ		0.70 0.168 0.689 0.801	0.70 0.168 0.689 0.801	Meets Meets Meets	Meets Meets Meets Meets	2.03 2.04 2.04 2.04	0.11 0.074 0.074 0.055	

Artifact conformance to NIST HB105-1 (1990) specifications of shape, material, and type were evaluated. Tolerances were evaluated using NIST HB105-1 (1990) 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 8 (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. Densities reported above are assumed unless noted. 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.

Nick Santori

Reviewed by: Anna Pierce

Metrologist, Signatory

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