



Receipt Date: April 7, 2016
Cal. Date: April 11, 2016
Report Date: April 11, 2016

Report No.: 335800
Set Serial No.: None
Barcode: 201599

Calibration Certificate

HOBART SALES & SERVICES
1412 EAST FRONT AVENUE
BISMARCK, ND 58504
Contact: JIM LINDQUIST
Phone: 701-222-0450
PO Number: NONE
SOP: 8
Technician ID: 11

Item(s) Submitted: Cast Hand Weights
Manufacturer: Asst Cast Mfg
Weight Type: II
Equipment ID: None
Condition: Good
Temperature: 18.5 °C
Pressure: 737.5 mmHg
Relative Humidity: 50.2 %

Nominal Value	Serial No.	CM Correction (mg)		NIST HB105-1 Class		k	U (mg)
		As Found	As Left	As Found	As Left		
50 lb		-720	-720	F	F	2.01	120
50 lb		60	60	F	F	2.01	120
50 lb		-300	-300	F	F	2.01	120
50 lb		760	760	F	F	2.01	120
50 lb		-220	-220	F	F	2.01	120
50 lb		-1160	-1160	F	F	2.01	120
25 lb		-292	-292	F	F	2.01	67


3 **WM-15-768** Filed: 4/20/2016 Pages: 5
Calibration reports

Hobart Sales and Service

The resulting tolerance class of the weight is determined by combining the correction of the weight and the uncertainty of the measurement. The corrections given above correlate to a conventional mass scale versus 8.0 g/cm³ density and an air density of 1.2 mg/cm³ at 20 °C. The items listed above have been calibrated using the Standards of the State of Minnesota which are currently in control. These standards are traceable to the SI through NIST. Calibration processes were monitored and found to be in control. All of the tolerances and specifications were evaluated according to NIST Handbook 105-1 (1990). Uncertainty calculations contain the components in NIST SOP 8 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. Results apply to items identified in this report only.

Pete Whebbe

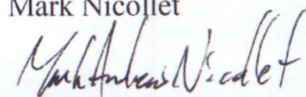
Metrologist



Page 1 of 1

Reviewed by:
Mark Nicollet

Quality Manager





Receipt Date: April 8, 2016
Cal. Date: April 14, 2016
Report Date: April 14, 2016

Report No.: 335804
Set Serial No.: None
Barcode: 201594

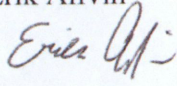
Calibration Certificate

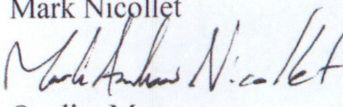
HOBART SALES & SERVICES
1412 EAST FRONT AVENUE
BISMARCK, ND 58504
Contact: Jim Lindquist
Phone: 701-222-0450
PO Number: None
SOP: 8
Technician ID: 19

Item(s) Submitted: AVDP Weight Kit - F
Manufacturer: Rice Lake
Weight Type: I & II
Equipment ID: None
Condition: Good
Temperature: 20.9 °C
Pressure: 737. mmHg
Relative Humidity: 49.3 %

Nominal Value	Serial No.	CM Correction (mg)		NIST HB105-1 Class		k	U (mg)
		As Found	As Left	As Found	As Left		
5 lb		38	38	F	F	2.05	12
5 lb		39	39	F	F	2.05	12
5 lb		15	15	F	F	2.05	12
5 lb		11	11	F	F	2.05	12
5 lb		50.	50.	F	F	2.05	12
1 lb		19.2	19.2	F	F	2.05	2.8
1 lb		19.3	19.3	F	F	2.05	2.8
1 lb		4.4	4.4	F	F	2.05	2.8
1 lb		9.2	9.2	F	F	2.05	2.8
1 lb		18.5	18.5	F	F	2.05	2.8
8 oz		12.2	12.2	F	F	2.05	2.3
0.2 lb		1.26	1.26	F	F	2.05	0.37
0.2 lb		8.39	8.39	F	F	2.05	0.37
0.1 lb		5.88	5.88	F	F	2.06	0.30
0.05 lb		0.31	0.31	F	F	2.06	0.30
0.02 lb		0.86	0.86	F	F	2.05	0.16
0.02 lb		0.70	0.70	F	F	2.05	0.16
0.01 lb		0.89	0.89	F	F	2.06	0.12
0.005 lb		0.42	0.42	F	F	2.06	0.10
0.002 lb		0.218	0.218	F	F	2.06	0.066

The resulting tolerance class of the weight is determined by combining the correction of the weight and the uncertainty of the measurement. The corrections given above correlate to a conventional mass scale versus 8.0 g/cm³ density and an air density of 1.2 mg/cm³ at 20 °C. The items listed above have been calibrated using the Standards of the State of Minnesota which are currently in control. These standards are traceable to the SI through NIST. Calibration processes were monitored and found to be in control. All of the tolerances and specifications were evaluated according to NIST Handbook 105-1 (1990). Uncertainty calculations contain the components in NIST SOP 8 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. Results apply to items identified in this report only.

Erik Alfvín

Metrologist

Reviewed by:
Mark Nicollet

Quality Manager

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APR 20 2016
ND Public
Service
Commission

Hobart Sales & Service
1412 E. Front Ave.
Bismarck, ND 58504
701-222-0450

1	2	3	4	5	6
7	8	9	10	11	12
14	15	16	17	18	19
20	21	22	23	24	25

Tested & Approved

United States Department of Commerce National Institute of Standards and Technology

Certificate of Metrological Traceability For:

Minnesota

This laboratory has demonstrated evidence of an unbroken chain of metrological traceability of its standards to the international system of units (SI), documented measurement uncertainties, uses documented measurement procedures, successfully completed training and proficiency tests, documented calibration intervals, submitted a quality management system, and demonstrated suitable measurement assurance for the Scope listed on this certificate.

The Office of Weights and Measures Program assesses laboratories to NIST Handbook 143 - Program Handbook for State Weights and Measures Laboratories and ISO/IEC 17025:2005.

Scope

Mass Echelon II	Weight Carts	Volume Gravimetric, I
50 kg to 1 mg	10 000 lb to 2000 lb	20 L to 10 mL
1000 lb to 0.001 lb	Wheel Load Weighers	100 gal to 0.25 qt
4 oz to 0.03125 oz	20 000 lb to 2000 lb	Volume Transfer, II
Mass Echelon III	Railroad Test Cars	1500 gal to 5 gal
50 kg to 1 mg	110 000 lb to 80 000 lb	100 gal to 25 gal LPG
5000 lb to 0.001 lb		
4 oz to 0.03125 oz		

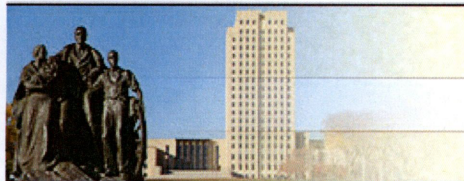


2016 to 2017

A handwritten signature in black ink, appearing to read "Carol T. Hocken".

Carol T. Hocken, Chief
NIST Office of Weights and Measures

Effective Dates: 2016-01-01 to 2017-12-31



SECRETARY OF STATE NORTH DAKOTA



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HOBART SALES AND SERVICE

Trade Name

System ID: 26807300 **Phone:** (701) 222-0450
Status: Active
Original File Date: 03/09/2010 **Last Renewal Date:** 03/09/2015

Nature of Business

SALES & SERVICE COMMERCIAL FOOD EQUIPMENT

Owners

JAMES LINDQUIST
PO BOX 1663
BISMARCK, ND 58502-1663

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