



Receipt Date: December 28, 2015
Test Date: December 29, 2015
Report Date: December 29, 2015

State Test No.: 335268
Serial No.: 04-20835-02
Barcode: 200307

Calibration Report

MIDWEST LIQUID SYTEMS
1414 21ST AVENUE
ELDORA, IA 50627
Contact: Dan Tiensvold
Phone: 641-858-2668
PO Number: None
SOP: 32
Technician ID: 19

Item(s) Submitted: 5 Gallon Measure
Manufacturer: Seraphin
Material: Stainless Steel
Equipment Number: None
Condition: Good
Temperature: 18.6 °C
Pressure: 737.1 mmHg
Relative Humidity: 35.7 %
Standard H₂O Temp.: 13.6 °C
Artifact H₂O Temp.: 13.6 °C

Nominal Volume (gal)		Error (in ³)	Volume at Zero Line (gal)	Uncertainty (in ³)	Coefficient of Expansion (1/°F)
5	As Found	-0.01	4.9999	0.24	0.0000265
	As Left	-0.01	4.9999	0.24	

Neck Calibration: No neck calibration was done at this time.

This measure or prover has been calibrated as a "to contain after wet down" vessel with a pour time of 30 seconds, a drain time of 10 seconds after cessation of full flow and at a reference temperature of 60 °F.

The measure or prover listed above has been compared by volumetric transfer methods to the standards of the State of Minnesota using water as the calibration medium. The standards are traceable to the SI through NIST. Statistical process control charts indicate standards are currently in control. All gauges were sealed in place.

The reported uncertainty conforms to the ISO/IEC Guide to the Expression of Uncertainty in Measurement (2008). The confidence interval is 95%.

Erik Alfvín

Metrologist

Reviewed by:

Mark Nicollet

Quality Manager



Receipt Date: December 29, 2015
Test Date: December 29, 2015
Report Date: December 29, 2015

State Test No.: 335272
Serial No.: 10-07021
Barcode: 201615

Calibration Report

MIDWEST LIQUID SYTEMS
1414 21ST AVENUE
ELDORA, IA 50627
Contact: Dan Tiensvold
Phone: 641-858-2668
PO Number: None
SOP: 32
Technician ID: 19

Item(s) Submitted: 5 Gallon Measure
Manufacturer: Seraphin
Material: Stainless Steel
Equipment Number: None
Condition: Good
Temperature: 18.6 °C
Pressure: 737.1 mmHg
Relative Humidity: 35.7 %
Standard H₂O Temp.: 13.2 °C
Artifact H₂O Temp.: 13.2 °C

Nominal Volume (gal)		Error (in ³)	Volume at Zero Line (gal)	Uncertainty (in ³)	Coefficient of Expansion (1/°F)
5	As Found	-0.16	4.9993	0.24	0.0000265
	As Left	-0.16	4.9993	0.24	

Neck Calibration: No neck calibration was done at this time.

This measure or prover has been calibrated as a "to contain after wet down" vessel with a pour time of 30 seconds, a drain time of 10 seconds after cessation of full flow and at a reference temperature of 60 °F.

The measure or prover listed above has been compared by volumetric transfer methods to the standards of the State of Minnesota using water as the calibration medium. The standards are traceable to the SI through NIST. Statistical process control charts indicate standards are currently in control. All gauges were sealed in place.

The reported uncertainty conforms to the ISO/IEC Guide to the Expression of Uncertainty in Measurement (2008). The confidence interval is 95%.

Erik Alfvin

Metrologist

Reviewed by:
Mark Nicollet

Quality Manager



Receipt Date: December 28, 2015
Test Date: December 29, 2015
Report Date: December 29, 2015

State Test No.: 335269
Serial No.: 13-91651
Barcode: 202622

Calibration Report

MIDWEST LIQUID SYTEMS
1414 21ST AVENUE
ELDORA, IA 50627
Contact: Dan Tiensvold
Phone: 641-858-2668
PO Number: None
SOP: 32
Technician ID: 19

Item(s) Submitted: 5 Gallon Measure
Manufacturer: Seraphin
Material: Stainless Steel
Equipment Number: None
Condition: Good
Temperature: 18.6 °C
Pressure: 737.1 mmHg
Relative Humidity: 35.7 %
Standard H₂O Temp.: 13.6 °C
Artifact H₂O Temp.: 13.6 °C

Nominal Volume (gal)		Error (in ³)	Volume at Zero Line (gal)	Uncertainty (in ³)	Coefficient of Expansion (1/°F)
5	As Found	0.29	5.0012	0.24	0.0000265
	As Left	-0.01	4.9999	0.24	

Neck Calibration: No neck calibration was done at this time.

This measure or prover has been calibrated as a "to contain after wet down" vessel with a pour time of 30 seconds, a drain time of 10 seconds after cessation of full flow and at a reference temperature of 60 °F.

The measure or prover listed above has been compared by volumetric transfer methods to the standards of the State of Minnesota using water as the calibration medium. The standards are traceable to the SI through NIST. Statistical process control charts indicate standards are currently in control. All gauges were sealed in place.

The reported uncertainty conforms to the ISO/IEC Guide to the Expression of Uncertainty in Measurement (2008). The confidence interval is 95%.

Erik Alfvín

Metrologist

Reviewed by:
Mark Nicollet

Quality Manager



Receipt Date: December 28, 2015
Test Date: December 29, 2015
Report Date: December 29, 2015

State Test No.: 335270
Serial No.: 11-06420
Barcode: 202937

Calibration Report

MIDWEST LIQUID SYTEMS
1414 21ST AVENUE
ELDORA, IA 50627

Contact: Dan Tiensvold
Phone: 641-858-2668
PO Number: None
SOP: 32
Technician ID: 19

Item(s) Submitted: 5 Gallon Measure
Manufacturer: Seraphin
Material: Stainless Steel
Equipment Number: None
Condition: Good
Temperature: 18.6 °C
Pressure: 737.1 mmHg
Relative Humidity: 35.7 %
Standard H₂O Temp.: 13.2 °C
Artifact H₂O Temp.: 13.2 °C

Nominal Volume (gal)		Error (in ³)	Volume at Zero Line (gal)	Uncertainty (in ³)	Coefficient of Expansion (1/°F)
5	As Found	0.24	5.0010	0.24	0.0000265
	As Left	-0.01	4.9999	0.24	

Neck Calibration: No neck calibration was done at this time.

This measure or prover has been calibrated as a "to contain after wet down" vessel with a pour time of 30 seconds, a drain time of 10 seconds after cessation of full flow and at a reference temperature of 60 °F.

The measure or prover listed above has been compared by volumetric transfer methods to the standards of the State of Minnesota using water as the calibration medium. The standards are traceable to the SI through NIST. Statistical process control charts indicate standards are currently in control. All gauges were sealed in place.

The reported uncertainty conforms to the ISO/IEC Guide to the Expression of Uncertainty in Measurement (2008). The confidence interval is 95%.

Erik Alfvin

Metrologist

Reviewed by:
Mark Nicollet

Quality Manager



Receipt Date: December 29, 2015
Test Date: December 29, 2015
Report Date: December 29, 2015

State Test No.: 335273
Serial No.: 14-56263-02
Barcode: 202678

Calibration Report

MIDWEST LIQUID SYTEMS
1414 21ST AVENUE
ELDORA, IA 50627
Contact: DAN TIENSVOLD
Phone: 641-858-2668
PO Number: NONE
SOP: 33
Technician ID: 07

Item(s) Submitted: 50 Gallon Prover
Manufacturer: SERAPHIN
Material: Stainless Steel
Description: Dry Bottom
Condition: Good
Temperature: 18.1 °C
Pressure: 738.2 mmHg
Relative Humidity: 39.8 %
Standard H₂O Temp.: 10.4 °C
Artifact H₂O Temp.: 10.7 °C

Nominal Volume (gal)		Tested Volume (gal)	Error (in ³)	Uncertainty (in ³)	Coefficient of Expansion(/°F)
50	As Found	49.990	-2.4	3.3	0.0000265
	As Left	49.990	-2.4	3.3	

Neck Calibration: No neck calibration was done at this time.

This prover has been calibrated as a "to contain after wet down" vessel with a drain time of 30 seconds after cessation of full flow and at a reference temperature of 60 °F.

The prover listed above has been compared by volumetric transfer methods to the standards of the State of Minnesota using water as the calibration medium. The standards are traceable to the SI through NIST. Statistical process control charts indicate standards are currently in control. All gauges were sealed in place.

The reported uncertainty conforms to the ISO/IEC Guide to the Expression of Uncertainty in Measurement (2008). The confidence interval is 95%.

Mark Nicollet

Quality Manager

Reviewed by:

Erik Alfvín

Metrologist

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.

2015

Scope

Mass Echelon II	Weight Carts	Volume Gravimetric, I
50 kg to 1 mg	10 000 lb to 2000 lb	20 L to 1 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		

A handwritten signature in blue ink, appearing to read "Carol T. Hockenry".

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

Effective Dates: 2015-01-01 to 2015-12-31

North Dakota

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SECRETARY OF STATE NORTH DAKOTA

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MIDWEST LIQUID SYSTEMS, INC.

Corporation Details

System ID: 33934300**Phone:** (641) 858-2668**Type:** FOREIGN BUSINESS CORPORATION**Status:** Active & Good Standing**Original File Date:** 04/09/2013**Effective Date:** 04/09/2013**State of Origin:** Iowa

Nature of Business

INSTALL & MAINTAIN UNDERGROUND TANKS AND PIPING

Principal Office

1414 21ST AVE PO BOX 71 ELDORA, IA 50627-0071

Registered Agent

C T CORPORATION SYSTEM

314 E THAYER AVE

BISMARCK, ND 58501-4018

Established Date: Apr 09, 2013

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