



APPLICATION FOR REGISTRATION AS A REGISTERED SERVICE COMPANY

Public Service Commission
SFN 51277 (2/2014)



TYPE OR PRINT - AN INCOMPLETE OR ILLEGIBLE APPLICATION WILL BE REJECTED

Name of Company Westmor Industries	Email Address Dispatches @ westmor-ind.com	Application Date 2/4/16	
Mailing Address PO Box 683	City MORRIS	State MN	Zip Code 56267
Telephone Number 320-589-2100	Cell Phone Number	Fax Number 320-589-2206	

Select below all device types your company will certify:

Scales (include maximum capacity, if applicable)	Liquid (include maximum flow rate, if applicable)
<input type="checkbox"/> 1. Rail <input type="checkbox"/> 2. Truck <input type="checkbox"/> 3. Livestock <input type="checkbox"/> 4. Hopper: Max. Capacity: _____ <input type="checkbox"/> 5. Belt <input type="checkbox"/> 6. Over 30 lbs.: Max. Capacity: _____ <input type="checkbox"/> 7. 30 lbs. or less <input type="checkbox"/> 8. Class II (indicate on your calibration report which weight kit is Class II certified) <input type="checkbox"/> 9. Other: Please List:	<input checked="" type="checkbox"/> 1. Retail Fuel (less than 20 gal. per minute) <input checked="" type="checkbox"/> 2. High Flow Retail Fuel (20 gal. per minute or greater) <input checked="" type="checkbox"/> 3. Vehicle Tank: Max. Flow Rate: <u>80</u> <input type="checkbox"/> 4. Stationary Bulk (fuel or oil): Max. Flow Rate: _____ <input checked="" type="checkbox"/> 5. LPG <input type="checkbox"/> 6. Stationary LPG <input type="checkbox"/> 7. Fertilizer: Max. Flow Rate: _____ <input type="checkbox"/> 8. Chemical <input type="checkbox"/> 9. Anhydrous <input type="checkbox"/> 10. Loading Rack <input type="checkbox"/> 11. Other: Please List:

List below all persons employed by your company as a North Dakota Registered Service Person and the device types they are registered to certify (attach a separate sheet to list additional employees):

Permit No.	Employee	Device Types Registered to Certify (list using device type numbers from above)
e.g. 1001	e.g. John Doe	e.g. Scales - 2, 3, 6, 8; e.g. Liquid - 1, 2, 6
	please see attached	

Application for Registration as a Registered Service Company
Page 2

List below all field standards (attach current calibration reports):

1-250g refined fuel - shop	
1-100gal refined fuel - shop	
1-100gal LP - shop	
1-200gal LP - shop	
2-100gal refined fuel - mobile	
1-50gal refined fuel - mobile	
1-5gal DEF only can	
14-5gal cans	

Additional Application Items (initial where appropriate):

Standardized Test Report	<input checked="" type="checkbox"/> Copy enclosed
	<input checked="" type="checkbox"/> No change in report filed previously
Tested and Approved Sticker	<input checked="" type="checkbox"/> Copy enclosed
	<input type="checkbox"/> No change in sticker filed previously
Photocopy of Crimped Lead Wire Seal	<input type="checkbox"/> Copy enclosed
	<input checked="" type="checkbox"/> No change in crimped lead wire seal filed previously

Public Company Listing:

Include my company information on your registered service company list for public contact.
 Yes No

I am Justin McNeill, and have authority to represent this company.
 By signing this application, I declare that I have examined this form and accompanying documentation, and to the best of my knowledge and belief, the facts stated and documentation provided is true, correct, and complete.

Justin McNeill
Signature

Send Completed Application and Related Documents To:

Public Service Commission
 600 E Boulevard Ave Dept 408
 Bismarck ND 58505-0480
Telephone: (701) 328-2400
Fax: (701) 328-2410

ND Permit #	Tech Name	Seal 1	Seal #2	Device Types (all Liquid)
1665	Doug Tipler	WM	264	1, 2
1698	Zach Arnold	WM	728	1, 2
1700	Chris Tolifson	WM	790	1, 2
1732	Reed Fox	WM	RF	1, 2
1760	Dustin Keyes	WM	1047	1, 2
1765	Darin Bouressa	WM	1024	1, 2, 3, 5
* coming	Cory Schroeder	WM	1025	1, 2
1683	Jeff Stallman	WM	730	1, 2, 3, 5
1690	Rick Anderson	WM	761	3, 5
1682	Dan Murphy	WM	270	3, 5
1681	Jim Hippen	WM	731	3, 5
1504	Fred Lembcke	WM	463	3, 5
1708	Cole Swenson	WM	808	3, 5
1709	Chris Kepner	WM	812	3, 5

*Note Cory Schroeder took the 3 required tests for ND Certification on January 18, 2016. We are just waiting for his certification # to arrive.



WESTMOR



**PIPELINE
TO PUMP**

TESTED AND APPROVED

Westmor Industries, LLC
Morris, MN
1-800-992-8981

Jan	Feb	Mar	Apr	May	June
July	Aug	Sept	Oct	Nov	Dec
16	17	18	19	20	21

Bauske, Shelly A.

From: Kristin McNeill <kristin.mcneill@westmor-ind.com>
Sent: Thursday, February 18, 2016 1:01 PM
To: Bauske, Shelly A.
Subject: Fwd: Registered Service Person Question

Welcome back!

Please see the message from Stuart below (he is David and Brandon's supervisor).

Kristin McNeill
Westmor Industries
1-800-992-8981 ext 7236

----- Forwarded message -----

From: **Stuart Strege** <stuart.strege@westmor-ind.com>
Date: Thu, Feb 18, 2016 at 12:44 PM
Subject: Re: Registered Service Person Question
To: Kristin McNeill <kristin.mcneill@westmor-ind.com>

Yes they do, I am sorry they just got added late last year. Can we still get them registered.?

Stuart Strege
Service Manager Truck & Trailer Division
Westmor Industries
PH: [320-589-7246](tel:320-589-7246)
FAX: [320-589-2706](tel:320-589-2706)
Email: stuart.strege@westmor-ind.com

On Thu, Feb 18, 2016 at 12:04 PM, Kristin McNeill <kristin.mcneill@westmor-ind.com> wrote:
Help please?

Kristin McNeill
Westmor Industries
[1-800-992-8981](tel:1-800-992-8981) ext 7236

----- Forwarded message -----

From: **Bauske, Shelly A.** <sbauske@nd.gov>
Date: Thu, Feb 18, 2016 at 12:01 PM
Subject: Registered Service Person Question
To: Kristin McNeill <kristin.mcneill@westmor-ind.com>

Good Afternoon Kristin

I'm in the process of reviewing your Application for Registration as a Registered Service Company and just have a question regarding a couple of registered service persons. Does David Gass and Brandon Tambornino still work for Westmor? I noticed their names were not on your list of registered service persons.

Thank you!

Shelly Bauske

Public Service Commission

600 E Boulevard Ave Dept 408

Bismarck ND 58505-0480

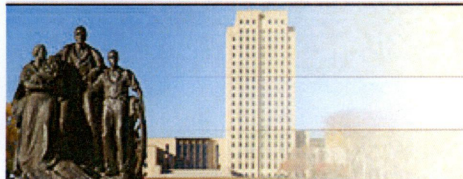
[701-328-4070](tel:701-328-4070)

[701-328-2410](tel:701-328-2410) (fax)

sbauske@nd.gov

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North Dakota

nd.gov Official Portal for
North Dakota State GovernmentNorth Dakota
LEGENDARY

SECRETARY OF STATE NORTH DAKOTA

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WESTMOR INDUSTRIES, LLC

Corporation Details

System ID: 17312000**Phone:** (800) 992-8981**Type:** FOREIGN LIMITED LIABILITY COMPANY**Status:** Active & Good Standing**Original File Date:** 08/31/2001**Effective Date:** 08/31/2001**State of Origin:** Minnesota

Nature of Business

SERVICING/SALES/INSTALLATION OF GAS PUMPING EQUIPMENT

Principal Office

3 DEVELOPMENT DR PO BOX 683 MORRIS, MN 56267-0683

Registered Agent

STUART STREGE

109 FRANCIS DR

HANKINSON, ND 58041-4112

Established Date: Feb 08, 2016

Generate an Annual Report To File

To Generate a Annual Report form to be filed with the Secretary of State, select the appropriate year of the report you intend to file. This report does not contain details of a report previously filed with the Secretary of State. The annual report years reflected are an indication of the various report forms available in this site and is not an indication that an entity needs to file reports for all years. Missing years indicate that the forms for the missing year have not yet been deployed to the website, or have already been removed, and can be obtained by contacting the Secretary of State.

[2015](#) (generates a forms-fillable pdf in a new pop-up window)[Return to Search Results](#)[Contact Us](#)[Disclaimer](#)[Privacy Policy](#)

We use Secure Sockets Layer (SSL) encryption technology to ensure your information is secure and protected.

Will open a new window (pop-up).

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MU Shop - refined

Receipt Date: December 18, 2015
Test Date: December 22, 2015
Report Date: December 22, 2015

State Test No.: 335243
Serial No.: 414574568
Barcode: 202640

Calibration Report

WESTMOR INDUSTRIES
3 DEVELOPMENT DRIVE
MORRIS, MN 56267-0600

Contact: Kristin McNeill
Phone: 800-992-8981
PO Number: None
SOP: 33
Technician ID: 19

Item(s) Submitted: 250 Gallon Prover
Manufacturer: Westmor
Material: Stainless Steel (304)
Description: Dry Bottom
Condition: Good/Other**
Temperature: 19.1 °C
Pressure: 729.3 mmHg
Relative Humidity: 36.5 %
Standard H₂O Temp.: 11.6 °C
Artifact H₂O Temp.: 11.3 °C

Nominal Volume (gal)		Tested Volume (gal)	Error (in ³)	Uncertainty (in ³)	Coefficient of Expansion(°F)
250	As Found	249.996	-0.9	7.2	0.0000288
	As Left	249.996	-0.9	7.2	

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

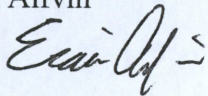
** Valve stop was bent and prevented full closure of drain.

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%.

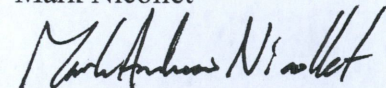
Erik Alfvin



Metrologist

Reviewed by:

Mark Nicollet



Quality Manager

Receipt Date: December 14, 2015
Test Date: December 14, 2015
Report Date: December 14, 2015

State Test No.: 335219
Serial No.: 0414571571-1
Barcode: 202639

Calibration Report

WESTMOR INDUSTRIES
3 DEVELOPMENT DRIVE
MORRIS, MN 56267-0600

Contact: Kristin McNeill
Phone: 800-992-8981
PO Number: None
SOP: 33
Technician ID: 19

Item(s) Submitted: 100 Gallon Prover
Manufacturer: Westmor
Material: Stainless Steel (304)
Description: Dry Bottom
Condition: Good
Temperature: 18.2 °C
Pressure: 720.9 mmHg
Relative Humidity: 46.5 %
Standard H₂O Temp.: 11.8 °C
Artifact H₂O Temp.: 11.8 °C

Nominal Volume (gal)		Tested		Coefficient of Expansion(°F)
		Volume (gal)	Error (in ³)	
100	As Found	99.992	-1.8	2.4
	As Left	99.992	-1.8	2.4

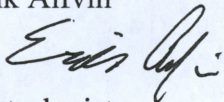
Neck Calibration: No neck calibration was done at this time.

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%.

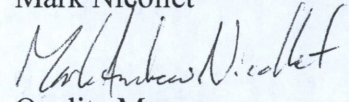
Erik Alfvin



Metrologist

Reviewed by:

Mark Nicollet



Quality Manager

Receipt Date: December 18, 2015
Test Date: December 23, 2015
Report Date: December 23, 2015

State Test No.: 335242
Serial No.: LPNH-5
Barcode: 017111

Calibration Report

WESTMOR INDUSTRIES
3 DEVELOPMENT DRIVE
MORRIS, MN 56267-0600
Contact: KRISTIN MCNEILL
Phone: 800-992-8981
PO Number: NONE
SOP: 34
Technician ID: 11

Item(s) Submitted: 100 Gallon LPG Prover
Manufacturer: Kleespie
Material: Mild Steel
Description: Wet Bottom
Condition: Good
Temperature: 18.6 °C
Pressure: 721.2 mmHg
Relative Humidity: 40. %
Standard H₂O Temp.: 11.1 °C
Artifact H₂O Temp.: 11.6 °C

Nominal Volume (gal)	Error As Found (in ³)	Error As Left (in ³)	Uncertainty (in ³)	Coefficient of Expansion(°F)
100	-8.6	-8.6	5.3	0.0000186

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

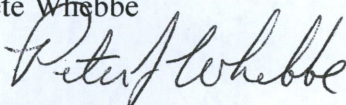
This prover has been calibrated as a "to contain after wet down" vessel at a reference temperature of 60 °F and a reference pressure of 100 psig.

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%.

Results apply to item identified in this report only.

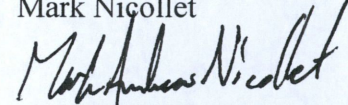
Pete Whebbe



Metrologist

Reviewed by:

Mark Nicollet



Quality Manager

Receipt Date: December 18, 2015
Test Date: December 23, 2015
Report Date: December 23, 2015

State Test No.: 335242
Serial No.: LPNH-5
Barcode: 17111

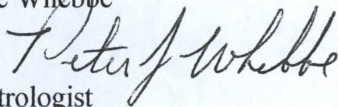
Pressure Correction Chart

WESTMOR INDUSTRIES
3 DEVELOPMENT DRIVE
MORRIS, MN 56267-0600
Contact: KRISTIN MCNEILL
Phone: 800-992-8981
PO Number: NONE
SOP: 34
Technician ID: 11

Item(s) Submitted: 100 Gallon LPG Prover
Manufacturer: Kleespie
Material: Mild Steel
Description: Wet Bottom
Condition: Good
Temperature: 18.6°C
Pressure: 721.2 mmHg
Relative Humidity: 40. %

Pressure Gauge Reading (PSIG)	Volume Correction (gal)
0	-0.169
10	-0.153
20	-0.137
30	-0.120
40	-0.104
50	-0.087
60	-0.077
70	-0.067
80	-0.057
90	-0.047
100	-0.037
110	-0.025
120	-0.013
130	-0.001
140	0.011
150	0.023
160	0.028
170	0.034
180	0.039
190	0.044
200	0.049

Pete Whelbe



Metrologist

Receipt Date: December 14, 2015
Test Date: December 16, 2015
Report Date: December 16, 2015

State Test No.: 335220
Serial No.: 45765
Barcode: 202718

Calibration Report

WESTMOR INDUSTRIES
3 DEVELOPMENT DRIVE
MORRIS, MN 56267-0600

Contact: Kristin McNeill
Phone: 800-992-8981
PO Number: None
SOP: 34
Technician ID: 19

Item(s) Submitted: 200 Gallon LPG Prover
Manufacturer: Arrow Tank
Material: Mild Steel
Description: Wet Bottom
Condition: Excellent
Temperature: 18.2 °C
Pressure: 718.8 mmHg
Relative Humidity: 42. %
Standard H₂O Temp.: 11.6 °C
Artifact H₂O Temp.: 11.9 °C

Nominal Volume (gal)	Error As Found (in ³)	Error As Left (in ³)	Uncertainty (in ³)	Coefficient of Expansion(°F)
200	4	4	11	0.0000186

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

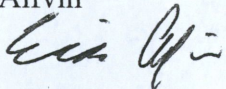
This prover has been calibrated as a "to contain after wet down" vessel at a reference temperature of 60 °F and a reference pressure of 100 psig.

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%.

Results apply to item identified in this report only.

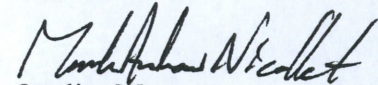
Erik Alfvin



Metrologist

Reviewed by:

Mark Nicollet



Quality Manager

Receipt Date: December 14, 2015
Test Date: December 16, 2015
Report Date: December 16, 2015

State Test No.: 335220
Serial No.: 45765
Barcode: 202718

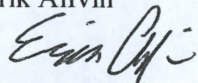
Pressure Correction Chart

WESTMOR INDUSTRIES
3 DEVELOPMENT DRIVE
MORRIS, MN 56267-0600
Contact: Kristin McNeill
Phone: 800-992-8981
PO Number: None
SOP: 34
Technician ID: 19

Item(s) Submitted: 200 Gallon LPG Prover
Manufacturer: Arrow Tank
Material: Mild Steel
Description: Wet Bottom
Condition: Excellent
Temperature: 18.2°C
Pressure: 718.8 mmHg
Relative Humidity: 42. %

Pressure Gauge Reading (PSIG)	Volume Correction (gal)
0	-0.227
10	-0.201
20	-0.175
30	-0.149
40	-0.123
50	-0.097
60	-0.074
70	-0.051
80	-0.028
90	-0.005
100	0.018
110	0.038
120	0.057
130	0.077
140	0.096
150	0.116
160	0.133
170	0.151
180	0.168
190	0.186
200	0.203

Erik Alfvin



Metrologist

Receipt Date: January 6, 2016
 Test Date: January 6, 2016
 Report Date: January 5, 2016

State Test No.: 335305
 Serial No.: 11-52086-01
 Barcode: 201814

Calibration Report

WESTMOR INDUSTRIES
 3 DEVELOPMENT DRIVE
 MORRIS, MN 56267-0600

Contact: Kristin McNeill
 Phone: 800-992-8981
 PO Number: None
 SOP: 33
 Technician ID: 19

Item(s) Submitted: 100 Gallon Prover
 Manufacturer: Seraphin
 Material: Stainless Steel
 Description: Dry Bottom
 Condition: Good
 Temperature: 18.3 °C
 Pressure: 736.9 mmHg
 Relative Humidity: 35.2 %
 Standard H₂O Temp.: 9.7 °C
 Artifact H₂O Temp.: 9.8 °C

Nominal Volume (gal)		Tested Volume (gal)	Error (in ³)	Uncertainty (in ³)	Coefficient of Expansion(°F)
100	As Found	100.017	3.9	2.4	0.0000265
	As Left	100.017	3.9	2.4	

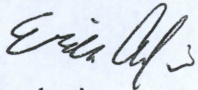
Neck Calibration: No neck calibration was done at this time.

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%.

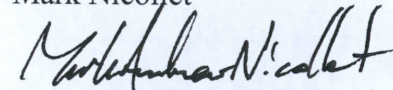
Erik Alfvín



Metrologist

Reviewed by:

Mark Nicollet



Quality Manager

mobile

Receipt Date: January 13, 2016
 Test Date: January 13, 2016
 Report Date: January 13, 2016

State Test No.: 335342
 Serial No.: 111164
 Barcode: 201112

Calibration Report

WESTMOR INDUSTRIES
 3 DEVELOPMENT DRIVE
 MORRIS, MN 56267-0600

Contact: Kristin McNeill
 Phone: 800-992-8981
 PO Number: None
 SOP: 33
 Technician ID: 19

Item(s) Submitted: 100 Gallon Prover
 Manufacturer: Kleespie
 Material: Mild Steel
 Description: Dry Bottom
 Condition: Good
 Temperature: 19.2 °C
 Pressure: 730.3 mmHg
 Relative Humidity: 25.4 %
 Standard H₂O Temp.: 9.9 °C
 Artifact H₂O Temp.: 10.1 °C

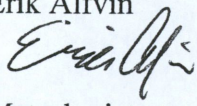
Nominal Volume (gal)		Tested Volume (gal)	Error (in ³)	Uncertainty (in ³)	Coefficient of Expansion(°F)
100	As Found	100.007	1.7	2.4	0.0000186
	As Left	100.007	1.7	2.4	

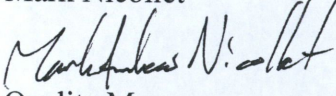
Neck Calibration: No neck calibration was done at this time.

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%.

Erik Alfvin

 Metrologist

Reviewed by:
 Mark Nicollet

 Quality Manager

Receipt Date: January 7, 2016
Test Date: January 8, 2016
Report Date: January 8, 2016

State Test No.: 335314
Serial No.: 061111194-0101
Barcode: 202680

Calibration Report

WESTMOR INDUSTRIES
3 DEVELOPMENT DRIVE
MORRIS, MN 56267-0600

Contact: Kristin McNeill
Phone: 800-992-8981
PO Number: None
SOP: 33
Technician ID: 19

Item(s) Submitted: 50 Gallon Prover
Manufacturer: Determan Brownie
Material: Stainless Steel (304)
Description: Dry Bottom
Condition: Good
Temperature: 19.1 °C
Pressure: 732.5 mmHg
Relative Humidity: 38.3 %
Standard H₂O Temp.: 9.6 °C
Artifact H₂O Temp.: 9.8 °C

Nominal Volume (gal)		Tested Volume (gal)	Error (in ³)	Uncertainty (in ³)	Coefficient of Expansion(°F)
50	As Found	49.996	-0.9	3.3	0.0000288
	As Left	49.996	-0.9	3.3	

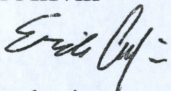
Neck Calibration: No neck calibration was done at this time.

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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%.

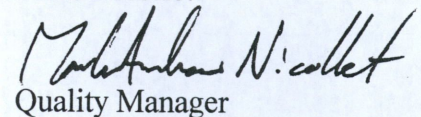
Erik Alfvin



Metrologist

Reviewed by:

Mark Nicollet



Quality Manager

Receipt Date: December 7, 2015
Test Date: December 14, 2015
Report Date: December 14, 2015

State Test No.: 335184
Serial No.: 11-89347
Barcode: 201917

Calibration Report

WESTMOR INDUSTRIES
3 DEVELOPMENT DRIVE
MORRIS, MN 56267-0600
Contact: KRISTIN MCNEILL
Phone: 800-992-8981
PO Number: NONE
SOP: 32
Technician ID: 11

Item(s) Submitted: 5 Gallon Measure
Manufacturer: Seraphin
Material: Stainless Steel
Equipment Number: None
Condition: Good
Temperature: 18.4 °C
Pressure: 721.2 mmHg
Relative Humidity: 46.7 %
Standard H₂O Temp.: 15.1 °C
Artifact H₂O Temp.: 15.3 °C

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

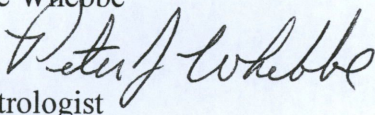
Neck Calibration: No neck calibration was done at this time.

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%.

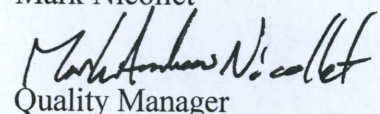
Pete Whobbe



Metrologist

Reviewed by:

Mark Nicollet



Quality Manager

Receipt Date: December 30, 2015
Test Date: January 5, 2016
Report Date: January 5, 2016

State Test No.: 335283
Serial No.: ID #R1003
Barcode: 018411

Calibration Report

WESTMOR INDUSTRIES
3 DEVELOPMENT DRIVE
MORRIS, MN 56267-0600

Contact: Kristin McNeill
Phone: 800-992-8981
PO Number: None
SOP: 32
Technician ID: 19

Item(s) Submitted: 5 Gallon Measure
Manufacturer: Seraphin
Material: Mild Steel
Equipment Number: None
Condition: Fair
Temperature: 18.0 °C
Pressure: 739.8 mmHg
Relative Humidity: 33.4 %
Standard H₂O Temp.: 17.1 °C
Artifact H₂O Temp.: 17.1 °C

Nominal Volume (gal)		Error (in ³)	Volume at Zero Line (gal)	Uncertainty (in ³)	Coefficient of Expansion (°F)
5	As Found	0.25	5.0011	0.24	0.0000186
	As Left	-0.09	4.9996	0.24	

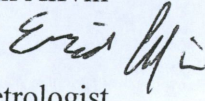
Neck Calibration: No neck calibration was done at this time.

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%.

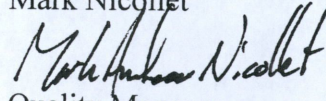
Erik Alfvin



Metrologist

Reviewed by:

Mark Nicollet



Quality Manager

Receipt Date: December 30, 2015
Test Date: January 5, 2016
Report Date: January 5, 2016

State Test No.: 335279
Serial No.: ID #R1002/29748
Barcode: 200384

Calibration Report

WESTMOR INDUSTRIES
3 DEVELOPMENT DRIVE
MORRIS, MN 56267-0600

Contact: Kristin McNeill
Phone: 800-992-8981
PO Number: None
SOP: 32
Technician ID: 19

Item(s) Submitted: 5 Gallon Measure
Manufacturer: Ellisco
Material: Mild Steel
Equipment Number: None
Condition: Fair
Temperature: 18.0 °C
Pressure: 739.8 mmHg
Relative Humidity: 33.4 %
Standard H₂O Temp.: 14.2 °C
Artifact H₂O Temp.: 14.3 °C

Nominal Volume (gal)		Error (in ³)	Volume at Zero Line (gal)	Uncertainty (in ³)	Coefficient of Expansion (1/°F)
5	As Found	0.89	5.0038	0.24	0.0000186
	As Left	-0.07	4.9997	0.24	

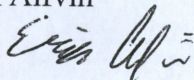
Neck Calibration: No neck calibration was done at this time.

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.

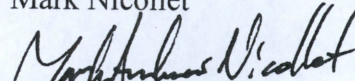
The reported uncertainty conforms to the ISO/IEC Guide to the Expression of Uncertainty in Measurement (2008). The confidence interval is 95%.

Erik Alfvin



Metrologist

Reviewed by:
Mark Nicollet


Quality Manager

Receipt Date: January 6, 2016
Test Date: January 7, 2016
Report Date: January 7, 2016

State Test No.: 335311
Serial No.: R 1004
Barcode: 200812

Calibration Report

WESTMOR INDUSTRIES
3 DEVELOPMENT DRIVE
MORRIS, MN 56267-0600

Contact: Kristin McNeill
Phone: 800-992-8981
PO Number: None
SOP: 32
Technician ID: 19

Item(s) Submitted: 5 Gallon Measure
Manufacturer: Seraphin
Material: Mild Steel
Equipment Number: None
Condition: Good
Temperature: 18.8 °C
Pressure: 736.5 mmHg
Relative Humidity: 40.1 %
Standard H₂O Temp.: 12.6 °C
Artifact H₂O Temp.: 12.7 °C

Nominal Volume (gal)		Error (in ³)	Volume at Zero Line (gal)	Uncertainty (in ³)	Coefficient of Expansion (°F)
5	As Found	-0.10	4.9996	0.24	0.0000186
	As Left	-0.10	4.9996	0.24	

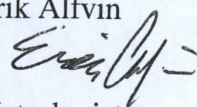
Neck Calibration: No neck calibration was done at this time.

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%.

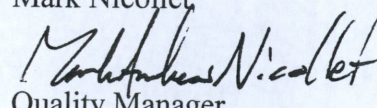
Erik Alfvin



Metrologist

Reviewed by:

Mark Nicollet



Quality Manager

Receipt Date: January 6, 2016
Test Date: January 7, 2016
Report Date: January 7, 2016

State Test No.: 335309
Serial No.: 05-01101
Barcode: 200809

Calibration Report

WESTMOR INDUSTRIES
3 DEVELOPMENT DRIVE
MORRIS, MN 56267-0600

Item(s) Submitted: 5 Gallon Measure
Manufacturer: Seraphin
Material: Stainless Steel
Equipment Number: None
Condition: Good
Temperature: 18.8 °C
Pressure: 736.5 mmHg
Relative Humidity: 40.1 %
Standard H₂O Temp.: 12.7 °C
Artifact H₂O Temp.: 12.7 °C

Contact: Kristin McNeill
Phone: 800-992-8981
PO Number: None
SOP: 32
Technician ID: 19

Nominal Volume (gal)		Error (in ³)	Volume at Zero Line (gal)	Uncertainty (in ³)	Coefficient of Expansion (1/°F)
5	As Found	-0.01	5.0000	0.24	0.0000265
	As Left	-0.01	5.0000	0.24	

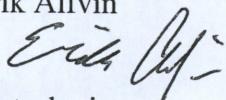
Neck Calibration: No neck calibration was done at this time.

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%.

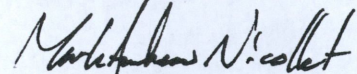
Erik Alfvin



Metrologist

Reviewed by:

Mark Nicollet



Quality Manager

Receipt Date: December 7, 2015
Test Date: December 14, 2015
Report Date: December 14, 2015

State Test No.: 335181
Serial No.: 09-04013/S5005
Barcode: 013189

Calibration Report

WESTMOR INDUSTRIES
3 DEVELOPMENT DRIVE
MORRIS, MN 56267-0600
Contact: KRISTIN MCNEILL
Phone: 800-992-8981
PO Number: NONE
SOP: 32
Technician ID: 11

Item(s) Submitted: 5 Gallon Measure
Manufacturer: Seraphin
Material: Stainless Steel
Equipment Number: None
Condition: Good
Temperature: 18.4 °C
Pressure: 721.2 mmHg
Relative Humidity: 46.7 %
Standard H₂O Temp.: 12.8 °C
Artifact H₂O Temp.: 13.1 °C

Nominal Volume (gal)		Error (in ³)	Volume at Zero Line (gal)	Uncertainty (in ³)	Coefficient of Expansion (1/°F)
5	As Found	0.33	5.0014	0.24	0.0000265
	As Left	-0.05	4.9998	0.24	

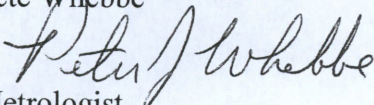
Neck Calibration: No neck calibration was done at this time.

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%.

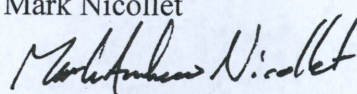
Pete Whebbe



Metrologist

Reviewed by:

Mark Nicollet



Quality Manager

Receipt Date: December 7, 2015
Test Date: December 14, 2015
Report Date: December 14, 2015

State Test No.: 335180
Serial No.: 47071
Barcode: 017974

Calibration Report

WESTMOR INDUSTRIES
3 DEVELOPMENT DRIVE
MORRIS, MN 56267-0600
Contact: KRISTIN MCNEILL
Phone: 800-992-8981
PO Number: NONE
SOP: 32
Technician ID: 11

Item(s) Submitted: 5 Gallon Measure
Manufacturer: Seraphin
Material: Mild Steel
Equipment Number: None
Condition: Good/Dirty
Temperature: 18.4 °C
Pressure: 721.2 mmHg
Relative Humidity: 46.7 %
Standard H₂O Temp.: 13.1 °C
Artifact H₂O Temp.: 13.3 °C

Nominal Volume (gal)		Error (in ³)	Volume at Zero Line (gal)	Uncertainty (in ³)	Coefficient of Expansion (1/°F)
5	As Found	0.11	5.0005	0.24	0.0000186
	As Left	0.11	5.0005	0.24	

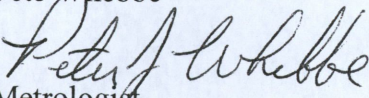
Neck Calibration: No neck calibration was done at this time.

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.

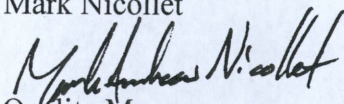
The reported uncertainty conforms to the ISO/IEC Guide to the Expression of Uncertainty in Measurement (2008). The confidence interval is 95%.

Pete Whebbe



Metrologist

Reviewed by:
Mark Nicollet



Quality Manager

Receipt Date: November 4, 2015
 Test Date: November 16, 2015
 Report Date: November 17, 2015

State Test No.: 335042
 Serial No.: 13-91602
 Barcode: 202628

Calibration Report

WESTMOR INDUSTRIES
 3 DEVELOPMENT DRIVE
 MORRIS, MN 56267-0600

Contact: Kristin McNeill
 Phone: 800-992-8981
 PO Number: None
 SOP: 32
 Technician ID: 19

Item(s) Submitted: 5 Gallon Measure
 Manufacturer: Seraphin
 Material: Stainless Steel
 Equipment Number: None
 Condition: Excellent
 Temperature: 18.3 °C
 Pressure: 731.6 mmHg
 Relative Humidity: 55.3 %
 Standard H₂O Temp.: 16.3 °C
 Artifact H₂O Temp.: 16.3 °C

Nominal Volume (gal)		Error (in ³)	Volume at Zero Line (gal)	Uncertainty (in ³)	Coefficient of Expansion (°F)
5	As Found	0.54	5.0023	0.62	0.0000265
	As Left	-0.01	4.9999	0.62	

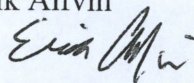
Neck Calibration: No neck calibration was done at this time.

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.

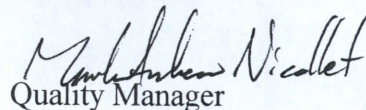
The reported uncertainty conforms to the ISO/IEC Guide to the Expression of Uncertainty in Measurement (2008). The confidence interval is 95%.

Erik Alfvin



Metrologist

Reviewed by:
 Mark Nicollet



Quality Manager

Receipt Date: December 7, 2015
Test Date: December 14, 2015
Report Date: December 14, 2015

State Test No.: 335182
Serial No.: 49830
Barcode: 018057

Calibration Report

WESTMOR INDUSTRIES
3 DEVELOPMENT DRIVE
MORRIS, MN 56267-0600
Contact: KRISTIN MCNEILL
Phone: 800-992-8981
PO Number: NONE
SOP: 32
Technician ID: 11

Item(s) Submitted: 5 Gallon Measure
Manufacturer: Seraphin
Material: Mild Steel
Equipment Number: None
Condition: Good
Temperature: 18.4 °C
Pressure: 721.2 mmHg
Relative Humidity: 46.7 %
Standard H₂O Temp.: 12.8 °C
Artifact H₂O Temp.: 13.1 °C

Nominal Volume (gal)		Error (in ³)	Volume at Zero Line (gal)	Uncertainty (in ³)	Coefficient of Expansion (°F)
5	As Found	0.72	5.0031	0.24	0.0000186
	As Left	-0.14	4.9994	0.24	

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

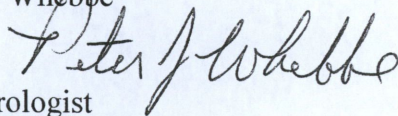
This measure or prover has been calibrated as a "to contain after wet down" vessel with a pour time of 30 seconds, a drain time of 10 seconds after cessation of full flow and at a reference temperature of 60 °F.

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%.

Pete Whebbbe

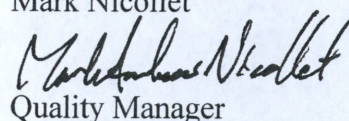
Metrologist



Reviewed by:

Mark Nicollet

Quality Manager



Receipt Date: December 14, 2015
Test Date: December 22, 2015
Report Date: December 22, 2015

State Test No.: 335239
Serial No.: Tipler
Barcode: 200564

Calibration Report

WESTMOR INDUSTRIES
3 DEVELOPMENT DRIVE
MORRIS, MN 56267-0600
Contact: KRISTIN MCNEILL
Phone: 800-992-8981
PO Number: NONE
SOP: 32
Technician ID: 11

Item(s) Submitted: 5 Gallon Measure
Manufacturer: Seraphin
Material: Stainless Steel
Equipment Number: None
Condition: Good
Temperature: 19.7 °C
Pressure: 730. mmHg
Relative Humidity: 33.4 %
Standard H₂O Temp.: 15.6 °C
Artifact H₂O Temp.: 15.8 °C

Nominal Volume (gal)		Error (in ³)	Volume at Zero Line (gal)	Uncertainty (in ³)	Coefficient of Expansion (1/°F)
5	As Found	-0.09	4.9996	0.24	0.0000265
	As Left	-0.09	4.9996	0.24	

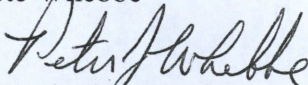
Neck Calibration: No neck calibration was done at this time.

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.

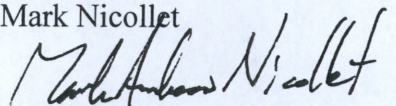
The reported uncertainty conforms to the ISO/IEC Guide to the Expression of Uncertainty in Measurement (2008). The confidence interval is 95%.

Pete Whebbe



Metrologist

Reviewed by:
Mark Nicollet



Quality Manager

Receipt Date: November 4, 2015
Test Date: November 16, 2015
Report Date: November 17, 2015

State Test No.: 335044
Serial No.: 14-92086
Barcode: 202631

Calibration Report

WESTMOR INDUSTRIES
3 DEVELOPMENT DRIVE
MORRIS, MN 56267-0600

Contact: Kristin McNeill
Phone: 800-992-8981
PO Number: None
SOP: 32
Technician ID: 19

Item(s) Submitted: 5 Gallon Measure
Manufacturer: Seraphin
Material: Stainless Steel
Equipment Number: None
Condition: Excellent
Temperature: 18.3 °C
Pressure: 731.6 mmHg
Relative Humidity: 55.3 %
Standard H₂O Temp.: 17.5 °C
Artifact H₂O Temp.: 17.5 °C

Nominal Volume (gal)		Error (in ³)	Volume at Zero Line (gal)	Uncertainty (in ³)	Coefficient of Expansion (°F)
5	As Found	0.40	5.0017	0.62	0.0000265
	As Left	-0.01	4.9999	0.62	

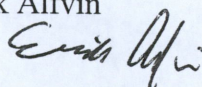
Neck Calibration: No neck calibration was done at this time.

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%.

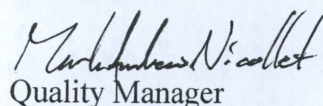
Erik Alfvin



Metrologist

Reviewed by:

Mark Nicollet



Quality Manager

Receipt Date: November 4, 2015
Test Date: November 16, 2015
Report Date: November 17, 2015

State Test No.: 335046
Serial No.: 14-92099
Barcode: 202633

Calibration Report

WESTMOR INDUSTRIES
3 DEVELOPMENT DRIVE
MORRIS, MN 56267-0600
Contact: Kristin McNeill
Phone: 800-992-8981
PO Number: None
SOP: 32
Technician ID: 19

Item(s) Submitted: 5 Gallon Measure
Manufacturer: Seraphin
Material: Stainless Steel
Equipment Number: None
Condition: Excellent
Temperature: 18.3 °C
Pressure: 731.6 mmHg
Relative Humidity: 55.3 %
Standard H₂O Temp.: 16.5 °C
Artifact H₂O Temp.: 16.6 °C

Nominal Volume (gal)		Error (in ³)	Volume at Zero Line (gal)	Uncertainty (in ³)	Coefficient of Expansion (1/°F)
5	As Found	0.44	5.0019	0.62	0.0000265
	As Left	-0.05	4.9998	0.62	

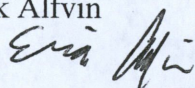
Neck Calibration: No neck calibration was done at this time.

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.

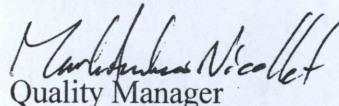
The reported uncertainty conforms to the ISO/IEC Guide to the Expression of Uncertainty in Measurement (2008). The confidence interval is 95%.

Erik Alfvin



Metrologist

Reviewed by:
Mark Nicollet



Quality Manager

Receipt Date: January 6, 2016
Test Date: January 7, 2016
Report Date: January 7, 2016

State Test No.: 335310
Serial No.: 09-06216
Barcode: 200733

Calibration Report

WESTMOR INDUSTRIES
3 DEVELOPMENT DRIVE
MORRIS, MN 56267-0600
Contact: Kristin McNeill
Phone: 800-992-8981
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: 18.8 °C
Pressure: 736.5 mmHg
Relative Humidity: 40.1 %
Standard H₂O Temp.: 12.8 °C
Artifact H₂O Temp.: 12.8 °C

Nominal Volume (gal)		Error (in ³)	Volume at Zero Line (gal)	Uncertainty (in ³)	Coefficient of Expansion (°F)
5	As Found	0.66	5.0029	0.24	0.0000265
	As Left	-0.06	4.9997	0.24	

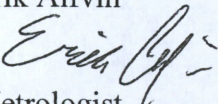
Neck Calibration: No neck calibration was done at this time.

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%.

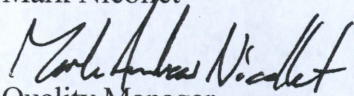
Erik Alfvín



Metrologist

Reviewed by:

Mark Nicollet



Quality Manager

Receipt Date: November 4, 2015
Test Date: November 16, 2015
Report Date: November 17, 2015

State Test No.: 335041
Serial No.: 14-92090
Barcode: 202632

Calibration Report

WESTMOR INDUSTRIES
3 DEVELOPMENT DRIVE
MORRIS, MN 56267-0600

Contact: Kristin McNeill
Phone: 800-992-8981
PO Number: None
SOP: 32
Technician ID: 19

Item(s) Submitted: 5 Gallon Measure
Manufacturer: Seraphin
Material: Stainless Steel
Equipment Number: None
Condition: Excellent
Temperature: 18.3 °C
Pressure: 731.6 mmHg
Relative Humidity: 55.3 %
Standard H₂O Temp.: 16.5 °C
Artifact H₂O Temp.: 16.5 °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	5.0011	0.62	0.0000265
	As Left	-0.06	4.9997	0.62	

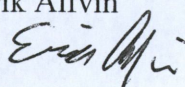
Neck Calibration: No neck calibration was done at this time.

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.

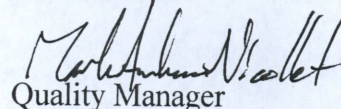
The reported uncertainty conforms to the ISO/IEC Guide to the Expression of Uncertainty in Measurement (2008). The confidence interval is 95%.

Erik Alfvin



Metrologist

Reviewed by:
Mark Nicollet



Quality Manager

Receipt Date: November 4, 2015
Test Date: November 16, 2015
Report Date: November 17, 2015

State Test No.: 335043
Serial No.: 14-92082
Barcode: 202630

Calibration Report

WESTMOR INDUSTRIES
3 DEVELOPMENT DRIVE
MORRIS, MN 56267-0600

Contact: Kristin McNeill
Phone: 800-992-8981
PO Number: None
SOP: 32
Technician ID: 19

Item(s) Submitted: 5 Gallon Measure
Manufacturer: Seraphin
Material: Stainless Steel
Equipment Number: None
Condition: Excellent
Temperature: 18.3 °C
Pressure: 731.6 mmHg
Relative Humidity: 55.3 %
Standard H₂O Temp.: 16.2 °C
Artifact H₂O Temp.: 16.3 °C

Nominal Volume (gal)		Error (in ³)	Volume at Zero Line (gal)	Uncertainty (in ³)	Coefficient of Expansion (°F)
5	As Found	0.54	5.0023	0.62	0.0000265
	As Left	0.00	5.0000	0.62	

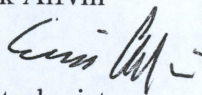
Neck Calibration: No neck calibration was done at this time.

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%.

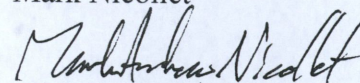
Erik Alfvin



Metrologist

Reviewed by:

Mark Nicollet



Quality Manager

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 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		



2015

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

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

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. Hoekert".

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

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