

Receipt Date: August 12, 2014
Test Date: August 15, 2014
Report Date: August 15, 2014

State Test No.: 332951
Serial No.: S/N 1
Bar Code: 202467

Calibration Report

O'DAY EQUIPMENT LLC
635 31ST ST SE
MINOT, ND 58701
Contact: KIM GREEK
Phone: 701-240-2042
PO Number: NONE
SOP: 32
Technician ID: 13

Item(s) Submitted: 5 Gallon Measure
Manufacturer: SERAPHIN
Material: ms
Equipment Number: None
Condition: Good
Temperature: 28.1°C
Pressure: 734.6 mmHg
Relative Humidity: 48. %

Nominal Volume			Error (in ³)	Volume Contained At Zero Line (gallons)	Uncertainty (in ³)	Coefficient of Expansion (°F)
5 gal	As Found		-0.01	5.0000	0.62	0.0000186
	As Left		-0.01	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 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. 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 NIST Technical Note 1297. The confidence interval is 95%.

Results apply to item identified in this report only.

Kari Anderson

Kari Anderson
Metrologist

Reviewed by:
Mark Nicollet

Mark Nicollet
Quality Manager

Receipt Date: August 12, 2014
Test Date: August 20, 2014
Report Date: August 20, 2014

State Test No.: 332930
Serial No.: 07-45256-07
Bar Code: 202242

Calibration Report

O'DAY EQUIPMENT LLC
635 31ST ST SE
MINOT, ND 58701
Contact: KIM GREEK
Phone: 701-240-2042
PO Number: NONE
SOP: 32
Technician ID: 07

Item(s) Submitted: 5 Gallon Prover
Manufacturer: Seraphin
Material: SS
Equipment Number: None
Condition: Good/Dirty
Temperature: 26.3°C
Pressure: 733.7 mmHg
Relative Humidity: 60. %

Nominal		Volume Contained		Uncertainty	Coefficient of Expansion
Volume	Error (in ³)	At Zero Line	(gallons)		
5 gal	As Found	-0.11	4.9995	0.62	0.0000265
	As Left	-0.11	4.9995	0.62	

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

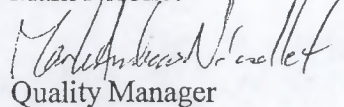
This measure or prover has been calibrated as a "to contain after wet down" vessel with a drain time of 30 seconds after cessation of flow and at a reference temperature of 60°F.

The measure or prover listed above has been compared by volumetric transfer methods to the standards of the State of Minnesota. 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.

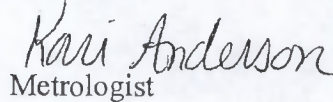
The reported uncertainty conforms to NIST Technical Note 1297. The confidence interval is 95%.

Results apply to item identified in this report only.

Mark Nicollet


Quality Manager

Reviewed by:
Kari Anderson


Metrologist

Receipt Date: August 12, 2014
Test Date: August 13, 2014
Report Date: August 13, 2014

State Test No.: 332932
Serial No.: 051320997-0103
Bar Code: 202318

Calibration Report

O'DAY EQUIPMENT LLC

635 31ST ST SE

MINOT, ND 58701

Contact: KIM GREEK

Phone: 701-240-2042

PO Number: NONE

SOP: 33

Technician ID: 07

Item(s) Submitted: 100 Gallon Prover

Manufacturer: DETERMAN BROWNIE INC

Material: SS

Description: Dry Bottom

Condition: Good

Temperature: 25.8°C

Pressure: 738.5 mmHg

Relative Humidity: 41. %

Nominal Volume		Volume (gallons)	Error (in ³)	Uncertainty (in ³)	Coefficient of Expansion(/°F)
100 gal	As Found	100.001	0.2	3.0	0.0000265
	As Left	100.001	0.2	3.0	

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

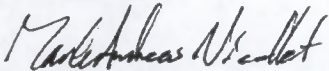
This prover has been calibrated as a "to contain after wet down" vessel with a drain time of 30 seconds after cessation of flow and at a reference temperature of 60°F.

The prover listed above has been compared by volumetric transfer methods to the standards of the State of Minnesota. 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 NIST Technical Note 1297. The confidence interval is 95%.

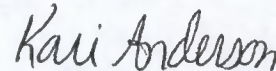
Results apply to item identified in this report only.

Mark Nicollet


Quality Manager

Reviewed by:

Kari Anderson


Metrologist

Receipt Date: August 12, 2014
Test Date: August 14, 2014
Report Date: August 14, 2014

State Test No.: 332933
Serial No.: 041320840-0102
Bar Code: 202317

Calibration Report

O'DAY EQUIPMENT LLC

635 31ST ST SE

MINOT, ND 58701

Contact: KIM GREEK

Phone: 701-240-2042

PO Number: NONE

SOP: 33

Technician ID: 13

Item(s) Submitted:

100 Gallon Prover

Manufacturer:

Westmor Fluid Solution

Material:

ss

Description:

Dry Bottom

Condition:

Good

Temperature:

27.3°C

Pressure:

737.6 mmHg

Relative Humidity:

45. %

Nominal Volume		Volume (gallons)	Error (in ³)	Uncertainty (in ³)	Coefficient of Expansion(/°F)
100 gal	As Found	100.014	3.1	3.0	0.0000265
	As Left	100.014	3.1	3.0	

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 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. 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 NIST Technical Note 1297. The confidence interval is 95%.

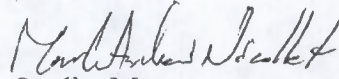
Results apply to item identified in this report only.

Kari Anderson


Metrologist

Reviewed by:

Mark Nicollet


Quality Manager

Receipt Date: August 12, 2014
Test Date: August 14, 2014
Report Date: August 19, 2014

State Test No.: 332931
Serial No.: 44753
Barcode: 202355

Calibration Report

O'DAY EQUIPMENT, LLC
635 31ST ST SE
MINOT, ND 58701
Contact: KIM GREEK
Phone: 701-240-2042
PO Number: NONE
SOP: 34
Technician ID: 07

Item(s) Submitted: 100 gallon LPG Prover
Manufacturer: ARROW TANK
Material: ms
Description: Wet Bottom
Condition: Excellent
Temperature: 26.6°C
Pressure: 738.3 mmHg
Relative Humidity: 45. %

Nominal Volume	Error As Found (in ³)	Error As Left (in ³)	Uncertainty (in ³)	Coefficient of Expansion(/°F)
100 gal	-18	-8	10	0.0000186

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

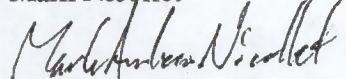
This prover has been calibrated as a "to contain after wet down" vessel at a reference temperature of 60°F and a reference pressure of 100 psig.

The prover listed above has been compared by volumetric transfer methods to the standards of the State of Minnesota. 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 NIST Technical Note 1297. The confidence interval is 95%.

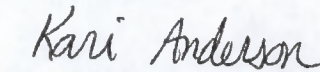
Results apply to item identified in this report only.

Mark Nicollet


Quality Manager

Reviewed by:

Kari Anderson


Metrologist

Receipt Date: August 12, 2014
Test Date: August 14, 2014
Report Date: August 19, 2014

State Test No.: 332931
Serial No.: 44753

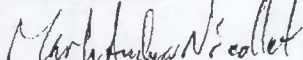
Pressure Correction Chart

O'DAY EQUIPMENT, LLC
635 31ST ST SE
MINOT, ND 58701
Contact: KIM GREEK
Phone: 701-240-2042
PO Number: NONE
SOP: 34
Technician ID: 07

Item(s) Submitted: 100 gallon LPG Prover
Manufacturer: ARROW TANK
Material: ms
Description: Wet Bottom
Condition: Excellent
Temperature: 26.6°C
Pressure: 738.3 mmHg
Relative Humidity: 45. %

Pressure Gauge Reading (PSIG)	Volume Correction (gal)
0	-0.135
10	-0.125
20	-0.114
30	-0.103
40	-0.092
50	-0.082
60	-0.072
70	-0.063
80	-0.054
90	-0.045
100	-0.035
110	-0.025
120	-0.015
130	-0.005
140	0.006
150	0.016
160	0.026
170	0.035
180	0.045
190	0.055
200	0.065

Mark Nicollet


Metrologist