



Receipt Date: May 26, 2015  
Test Date: May 28, 2015  
Report Date: May 28, 2015

State Test No.: 334300  
Serial No.: 0314542120  
Barcode: 202504

## Calibration Report

WESTMOR FLUID SOLUTIONS LLC  
14044 W. FREEWAY DRIVE  
COLUMBUS, MN 55038  
Contact: Ryan Hartin  
Phone: 763-502-9613  
PO Number: NONE  
SOP: 33  
Technician ID: 07

Item(s) Submitted: 100 Gallon Prover  
Manufacturer: Westmor Fluid Solutions  
Material: Stainless Steel (304)  
Description: Dry Bottom  
Condition: Excellent  
Temperature: 23.6°C  
Pressure: 738.6 mmHg  
Relative Humidity: 55. %  
Standard H<sub>2</sub>O Temp.: 15.1 °C  
Artifact H<sub>2</sub>O Temp.: 15.3 °C

Nominal Volume (gal)	Tested			Uncertainty (in <sup>3</sup> )	Coefficient of Expansion(/°F)
	As Found	Volume (gal)	Error (in <sup>3</sup> )		
100	As Found	99.983	-3.9	3.0	0.0000288
	As Left	99.998	-0.4	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 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 NIST Technical Note 1297. The confidence interval is 95 %.

Results apply to item identified in this report only.

Mark Nicollet

*Mark Nicollet*  
Quality Manager

Reviewed by:

Pete Whebbe

*Pete Whebbe*  
Metrologist



Receipt Date: May 26, 2015  
Test Date: May 27, 2015  
Report Date: May 27, 2015

State Test No.: 334301  
Serial No.: 0114527708  
Barcode: 202505

## Calibration Report

WESTMOR FLUID SOLUTIONS LLC  
14044 W. FREEWAY DRIVE  
COLUMBUS, MN 55038  
Contact: Ryan Hartin  
Phone: 763-502-9613  
PO Number: NONE  
SOP: 33  
Technician ID: 07

Item(s) Submitted: 1000 Gallon Prover  
Manufacturer: Westmor Fluid Solutions  
Material: Stainless Steel (304)  
Description: Dry Bottom  
Condition: Excellent  
Temperature: 23.°C  
Pressure: 735.9 mmHg  
Relative Humidity: 56. %  
Standard H<sub>2</sub>O Temp.: 12.3 °C  
Artifact H<sub>2</sub>O Temp.: 12.5 °C

Nominal Volume (gal)		Tested Volume (gal)	Error (in <sup>3</sup> )	Uncertainty (in <sup>3</sup> )	Coefficient of Expansion(°F)
1000	As Found	999.845	-36	30	0.0000288
	As Left	1000.003	1	30	

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

Results apply to item identified in this report only.

Mark Nicollet

*Mark Nicollet*  
Quality Manager

Reviewed by:

Heidi Jones

*Heidi Jones*

Laboratory Administrator



Receipt Date: May 28, 2015  
Test Date: May 28 & 29, 2015  
Report Date: May 29, 2015

State Test No.: 334312  
Serial No.: 090610694-0201  
Barcode: 200498

## Calibration Report

WESTMOR FLUID SOLUTIONS LLC  
14044 W. FREEWAY DRIVE  
COLUMBUS, MN 55038  
Contact: Ryan Hartin  
Phone: 763-502-9613  
PO Number: NONE  
SOP: 33  
Technician ID: 07

Item(s) Submitted: 1500 Gallon Prover  
Manufacturer: Determan Brownie  
Material: Stainless Steel (304)  
Description: Dry Bottom  
Condition: Good  
Temperature: 24. °C  
Pressure: 734.5 mmHg  
Relative Humidity: 51. %  
Standard H<sub>2</sub>O Temp.: 12.5 °C  
Artifact H<sub>2</sub>O Temp.: 12.6 °C

Nominal Volume (gal)		Tested Volume (gal)	Error (in <sup>3</sup> )	Uncertainty (in <sup>3</sup> )	Coefficient of Expansion(°F)
1500	As Found	1500.013	3	45	0.0000288
	As Left	1500.013	3	45	

Neck Calibration: Neck scale plate meets NIST Handbook 105-3 specifications.

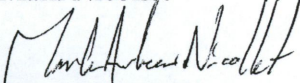
This prover has been calibrated as a "to contain after wet down" vessel with a drain time of 30 seconds after cessation of full flow and at a reference temperature of 60 °F.

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

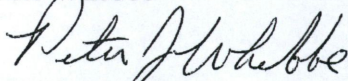
Results apply to item identified in this report only.

Mark Nicollet

  
Quality Manager

Reviewed by:

Pete Whebbe

  
Metrologist