



Receipt Date: April 1, 2016
Cal. Date: April 6, 2016
Report Date: April 7, 2016

Report No.: 335775
Serial No.: 09-49760-11
Barcode: 200945

Calibration Certificate

O'DAY EQUIPMENT
1301 40TH ST NW
FARGO, ND 58102-2813

Contact: Nicole Duncomb
Phone: 701-282-9260
PO Number: None
SOP: 19
Technician ID: 19

Item(s) Submitted: 5 Gallon Prover
Manufacturer: Seraphin
Material: Stainless Steel
Type: No Bottom Zero
Condition: Good
Temperature: 18.6 °C
Pressure: 727.5 mmHg
Relative Humidity: 41.6 %
Standard H₂O Temp.: 11.8 °C
Artifact H₂O Temp.: 11.9 °C

Nominal Volume (gal)		Calibrated Volume (gal)	Error (in ³)	<i>k</i>	U (in ³)	CCE (°F)
5	As Found	5.001	0.25	2.06	0.24	0.0000265
	As Left	5.000	-0.10			

Neck Calibration: No neck calibration was performed 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.

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.

All tolerances and specifications were evaluated according to NIST Handbook 105-3 (2010). Uncertainty calculations contain the components in NIST SOP 19 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 item identified in this report only.

CCE is the cubical coefficient of thermal expansion, and the reference temperature is 60 °F

Erik Alfvín

Metrologist

Reviewed by:

Benjamin FitzPatrick

Deputy Director

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Calibration reports
O'Day Equipment, LLC

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Receipt Date: April 1, 2016
Cal. Date: April 6, 2016
Report Date: April 7, 2016

Report No.: 335776
Serial No.: 29726
Barcode: 019891

Calibration Certificate

O'DAY EQUIPMENT
1301 40TH ST NW
FARGO, ND 58102-2813

Contact: Nicole Duncomb
Phone: 701-282-9260
PO Number: None
SOP: 19
Technician ID: 19

Item(s) Submitted: 5 Gallon Measure
Manufacturer: Seraphin
Material: Mild Steel
Type: Measure
Condition: Good
Temperature: 18.6 °C
Pressure: 727.5 mmHg
Relative Humidity: 41.6 %
Standard H₂O Temp.: 11.7 °C
Artifact H₂O Temp.: 11.9 °C

Nominal		Calibrated				
Volume (gal)		Volume (gal)	Error (in ³)	<i>k</i>	U (in ³)	CCE (1/°F)
5	As Found	5.004	0.84	2.06	0.24	0.0000186
	As Left	4.999	-0.12			

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

This prover has been calibrated as a "to contain after wet down" vessel with a pour time of 30 seconds followed by a drain time of 10 seconds after cessation of full flow.

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.

All tolerances and specifications were evaluated according to NIST Handbook 105-3 (2010). Uncertainty calculations contain the components in NIST SOP 19 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 item identified in this report only.

CCE is the cubical coefficient of thermal expansion, and the reference temperature is 60 °F

Erik Alfvin

Metrologist

Reviewed by:
Benjamin FitzPatrick

Deputy Director



Receipt Date: April 1, 2016
Cal. Date: April 6, 2016
Report Date: April 7, 2016

Report No.: 335777
Serial No.: 42840
Barcode: 200167

Calibration Certificate

O'DAY EQUIPMENT
1301 40TH ST NW
FARGO, ND 58102-2813
Contact: Nicole Duncomb
Phone: 701-282-9260
PO Number: None
SOP: 19
Technician ID: 19

Item(s) Submitted: 5 Gallon Measure
Manufacturer: Seraphin
Material: Mild Steel
Type: Measure
Condition: Fair/Bent Neck*
Temperature: 18.6 °C
Pressure: 727.5 mmHg
Relative Humidity: 41.6 %
Standard H₂O Temp.: 13.0 °C
Artifact H₂O Temp.: 13.1 °C

Nominal		Calibrated				
Volume (gal)		Volume (gal)	Error (in ³)	<i>k</i>	U (in ³)	CCE (°F)
5	As Found	5.002	0.51	2.06	0.24	0.0000186
	As Left	5.000	-0.11			

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

* Neck is significantly bent - measure must be replaced by next calibration date.

This prover has been calibrated as a "to contain after wet down" vessel with a pour time of 30 seconds followed by a drain time of 10 seconds after cessation of full flow.

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.

All tolerances and specifications were evaluated according to NIST Handbook 105-3 (2010). Uncertainty calculations contain the components in NIST SOP 19 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 item identified in this report only.

CCE is the cubical coefficient of thermal expansion, and the reference temperature is 60 °F

Erik Alfvin

Metrologist

Reviewed by:

Benjamin FitzPatrick

Deputy Director



Receipt Date: April 1, 2016
Cal. Date: April 6, 2016
Report Date: April 7, 2016

Report No.: 335778
Serial No.: 42853
Barcode: 019892

Calibration Certificate

O'DAY EQUIPMENT
1301 40TH ST NW
FARGO, ND 58102-2813

Contact: Nicole Duncomb
Phone: 701-282-9260
PO Number: None
SOP: 19
Technician ID: 19

Item(s) Submitted: 5 Gallon Measure
Manufacturer: Seraphin
Material: Mild Steel
Type: Measure
Condition: Good
Temperature: 18.6 °C
Pressure: 727.5 mmHg
Relative Humidity: 41.6 %
Standard H₂O Temp.: 16.6 °C
Artifact H₂O Temp.: 16.6 °C

Nominal		Calibrated				
Volume (gal)		Volume (gal)	Error (in ³)	<i>k</i>	U (in ³)	CCE (°F)
5	As Found	5.000	-0.09	2.06	0.24	0.0000186
	As Left	5.000	-0.09			

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

This prover has been calibrated as a "to contain after wet down" vessel with a pour time of 30 seconds followed by a drain time of 10 seconds after cessation of full flow.

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.

All tolerances and specifications were evaluated according to NIST Handbook 105-3 (2010). Uncertainty calculations contain the components in NIST SOP 19 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 item identified in this report only.

CCE is the cubical coefficient of thermal expansion, and the reference temperature is 60 °F

Erik Alfvin

Metrologist

Reviewed by:

Benjamin FitzPatrick

Deputy Director



Receipt Date: April 1, 2016
Cal. Date: April 6, 2016
Report Date: April 7, 2016

Report No.: 335779
Serial No.: 40961
Barcode: 019293

Calibration Certificate

O'DAY EQUIPMENT
1301 40TH ST NW
FARGO, ND 58102-2813

Contact: Nicole Duncomb
Phone: 701-282-9260
PO Number: None
SOP: 19
Technician ID: 19

Item(s) Submitted: 5 Gallon Measure
Manufacturer: Seraphin
Material: Mild Steel
Type: Measure
Condition: Fair
Temperature: 18.6 °C
Pressure: 727.5 mmHg
Relative Humidity: 41.6 %
Standard H₂O Temp.: 16.6 °C
Artifact H₂O Temp.: 16.6 °C

Nominal		Calibrated				
Volume (gal)		Volume (gal)	Error (in ³)	<i>k</i>	U (in ³)	CCE (°F)
5	As Found	5.004	0.95	2.06	0.24	0.0000186
	As Left	5.000	0.06			

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

This prover has been calibrated as a "to contain after wet down" vessel with a pour time of 30 seconds followed by a drain time of 10 seconds after cessation of full flow.

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.

All tolerances and specifications were evaluated according to NIST Handbook 105-3 (2010). Uncertainty calculations contain the components in NIST SOP 19 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 item identified in this report only.

CCE is the cubical coefficient of thermal expansion, and the reference temperature is 60 °F

Erik Alfvín

Metrologist

Reviewed by:

Benjamin FitzPatrick

Deputy Director



Receipt Date: April 1, 2016
Cal. Date: April 6, 2016
Report Date: April 7, 2016

Report No.: 335780
Serial No.: 15-92427
Barcode: 202813

Calibration Certificate

O'DAY EQUIPMENT
1301 40TH ST NW
FARGO, ND 58102-2813

Contact: Nicole Duncomb
Phone: 701-282-9260
PO Number: None
SOP: 19
Technician ID: 19

Item(s) Submitted: 5 Gallon Measure
Manufacturer: Seraphin
Material: Stainless Steel
Type: Measure
Condition: Excellent
Temperature: 18.6 °C
Pressure: 727.5 mmHg
Relative Humidity: 41.6 %
Standard H₂O Temp.: 12.6 °C
Artifact H₂O Temp.: 12.6 °C

Nominal		Calibrated				
Volume (gal)		Volume (gal)	Error (in ³)	<i>k</i>	U (in ³)	CCE (°F)
5	As Found	5.002	0.37	2.06	0.24	0.0000265
	As Left	5.000	-0.11			

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

This prover has been calibrated as a "to contain after wet down" vessel with a pour time of 30 seconds followed by a drain time of 10 seconds after cessation of full flow.

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.

All tolerances and specifications were evaluated according to NIST Handbook 105-3 (2010). Uncertainty calculations contain the components in NIST SOP 19 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 item identified in this report only.

CCE is the cubical coefficient of thermal expansion, and the reference temperature is 60 °F

Erik Alfvin

Metrologist

Reviewed by:
Benjamin FitzPatrick

Deputy Director



Receipt Date: April 1, 2016
Cal. Date: April 6, 2016
Report Date: April 7, 2016

Report No.: 335781
Serial No.: 49775
Barcode: 017688

Calibration Certificate

O'DAY EQUIPMENT
1301 40TH ST NW
FARGO, ND 58102-2813

Contact: Nicole Duncomb
Phone: 701-282-9260
PO Number: None
SOP: 19
Technician ID: 19

Item(s) Submitted: 5 Gallon Measure
Manufacturer: Seraphin
Material: Mild Steel
Type: Measure
Condition: Good
Temperature: 18.6 °C
Pressure: 727.5 mmHg
Relative Humidity: 41.6 %
Standard H₂O Temp.: 11.7 °C
Artifact H₂O Temp.: 11.7 °C

Nominal		Calibrated				
Volume (gal)		Volume (gal)	Error (in ³)	<i>k</i>	U (in ³)	CCE (°F)
5	As Found	5.000	0.08	2.06	0.24	0.0000186
	As Left	5.000	0.08			

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

This prover has been calibrated as a "to contain after wet down" vessel with a pour time of 30 seconds followed by a drain time of 10 seconds after cessation of full flow.

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.

All tolerances and specifications were evaluated according to NIST Handbook 105-3 (2010). Uncertainty calculations contain the components in NIST SOP 19 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 item identified in this report only.

CCE is the cubical coefficient of thermal expansion, and the reference temperature is 60 °F

Erik Alfvin

Metrologist

Reviewed by:

Benjamin FitzPatrick

Deputy Director



Receipt Date: April 1, 2016
Cal. Date: April 6, 2016
Report Date: April 7, 2016

Report No.: 335782
Serial No.: 15-92451
Barcode: 202810

Calibration Certificate

O'DAY EQUIPMENT
1301 40TH ST NW
FARGO, ND 58102-2813

Contact: Nicole Duncomb
Phone: 701-282-9260
PO Number: None
SOP: 19
Technician ID: 19

Item(s) Submitted: 5 Gallon Measure
Manufacturer: Seraphin
Material: Stainless Steel
Type: Measure
Condition: Good
Temperature: 18.6 °C
Pressure: 727.5 mmHg
Relative Humidity: 41.6 %
Standard H₂O Temp.: 12.6 °C
Artifact H₂O Temp.: 12.7 °C

Nominal		Calibrated				
Volume (gal)		Volume (gal)	Error (in ³)	<i>k</i>	U (in ³)	CCE (°F)
5	As Found	5.002	0.47	2.06	0.24	0.0000265
	As Left	5.000	0.05			

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

This prover has been calibrated as a "to contain after wet down" vessel with a pour time of 30 seconds followed by a drain time of 10 seconds after cessation of full flow.

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.

All tolerances and specifications were evaluated according to NIST Handbook 105-3 (2010). Uncertainty calculations contain the components in NIST SOP 19 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 item identified in this report only.

CCE is the cubical coefficient of thermal expansion, and the reference temperature is 60 °F

Erik Alfvin

Metrologist

Reviewed by:

Benjamin FitzPatrick

Deputy Director



Receipt Date: April 1, 2016
Cal. Date: April 5, 2016
Report Date: April 6, 2016

Report No.: 335783
Serial No.: 11-06413
Barcode: 202099

Calibration Certificate

O'DAY EQUIPMENT
1301 40TH ST NW
FARGO, ND 58102-2813
Contact: Nicole Duncomb
Phone: 701-282-9260
PO Number: None
SOP: 19
Technician ID: 19

Item(s) Submitted: 5 Gallon Measure
Manufacturer: Seraphin
Material: Stainless Steel
Type: Measure
Condition: Good
Temperature: 18.4 °C
Pressure: 735.3 mmHg
Relative Humidity: 35.8 %
Standard H₂O Temp.: 16.4 °C
Artifact H₂O Temp.: 16.4 °C

Nominal		Calibrated				
Volume (gal)		Volume (gal)	Error (in ³)	<i>k</i>	U (in ³)	CCE (°F)
5	As Found	4.998	-0.39	2.06	0.24	0.0000265
	As Left	5.000	-0.06			

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

This prover has been calibrated as a "to contain after wet down" vessel with a pour time of 30 seconds followed by a drain time of 10 seconds after cessation of full flow.

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.

All tolerances and specifications were evaluated according to NIST Handbook 105-3 (2010). Uncertainty calculations contain the components in NIST SOP 19 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 item identified in this report only.

CCE is the cubical coefficient of thermal expansion, and the reference temperature is 60 °F

Erik Alfvin

Metrologist

Reviewed by:
Benjamin FitzPatrick

Deputy Director



Receipt Date: April 1, 2016
Cal. Date: April 5, 2016
Report Date: April 7, 2016

Report No.: 335784
Serial No.: 15-92404
Barcode: 202812

Calibration Certificate

O'DAY EQUIPMENT
1301 40TH ST NW
FARGO, ND 58102-2813

Contact: Nicole Duncomb
Phone: 701-282-9260
PO Number: None
SOP: 19
Technician ID: 19

Item(s) Submitted: 5 Gallon Measure
Manufacturer: Seraphin
Material: Stainless Steel
Type: Measure
Condition: Excellent
Temperature: 18.4 °C
Pressure: 735.3 mmHg
Relative Humidity: 35.8 %
Standard H₂O Temp.: 14.1 °C
Artifact H₂O Temp.: 14.1 °C

Nominal		Calibrated				
Volume (gal)		Volume (gal)	Error (in ³)	<i>k</i>	U (in ³)	CCE (°F)
5	As Found	5.000	0.06	2.06	0.24	0.0000265
	As Left	5.000	0.06			

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

This prover has been calibrated as a "to contain after wet down" vessel with a pour time of 30 seconds followed by a drain time of 10 seconds after cessation of full flow.

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.

All tolerances and specifications were evaluated according to NIST Handbook 105-3 (2010). Uncertainty calculations contain the components in NIST SOP 19 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 item identified in this report only.

CCE is the cubical coefficient of thermal expansion, and the reference temperature is 60 °F

Erik Alfvin

Metrologist

Reviewed by:
Benjamin FitzPatrick

Deputy Director



Receipt Date: April 1, 2016
Cal. Date: April 4, 2016
Report Date: April 4, 2016

Report No.: 335773
Serial No.: 3758 (Tall)
Barcode: 019923

Calibration Certificate

O'DAY EQUIPMENT
1301 40TH ST NW
FARGO, ND 58102-2813
Contact: NICOLE DUNCOMB
Phone: 701-282-9260
PO Number: NONE
SOP: 19
Technician ID: 11

Item(s) Submitted: 100 Gallon Prover
Manufacturer: Unknown
Material: Mild Steel
Type: No Bottom Zero
Condition: Poor
Temperature: 18.2 °C
Pressure: 743.9 mmHg
Relative Humidity: 37.2 %
Standard H₂O Temp.: 8.0 °C
Artifact H₂O Temp.: 8.1 °C

Nominal		Calibrated				
Volume (gal)		Volume (gal)	Error (in ³)	<i>k</i>	U (in ³)	CCE (°F)
100	As Found	99.996	-1.0	2.01	3.3	0.0000186
	As Left	99.996	-1.0			

Neck Calibration: No neck calibration was performed at this time.
Prover must be repainted glossy white per NIST HB 105-3 before next calibration.

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.

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.

All tolerances and specifications were evaluated according to NIST Handbook 105-3 (2010). Uncertainty calculations contain the components in NIST SOP 19 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 item identified in this report only.

CCE is the cubical coefficient of thermal expansion, and the reference temperature is 60 °F

Pete Whebbe

Metrologist

Reviewed by:

Benjamin FitzPatrick

Deputy Director



Receipt Date: April 1, 2016
Cal. Date: April 4, 2016
Report Date: April 4, 2016

Report No.: 335774
Serial No.: 103 (Short)
Barcode: 018789

Calibration Certificate

O'DAY EQUIPMENT
1301 40TH ST NW
FARGO, ND 58102-2813

Contact: NICOLE DUNCOMB
Phone: 701-282-9260
PO Number: NONE
SOP: 19
Technician ID: 11

Item(s) Submitted: 100 Gallon Prover
Manufacturer: Kleespie
Material: Mild Steel
Type: No Bottom Zero
Condition: Poor
Temperature: 19.1 °C
Pressure: 744.2 mmHg
Relative Humidity: 35.3 %
Standard H₂O Temp.: 8.7 °C
Artifact H₂O Temp.: 8.9 °C

Nominal		Calibrated				
Volume (gal)		Volume (gal)	Error (in ³)	<i>k</i>	U (in ³)	CCE (°F)
100	As Found	100.013	3.0	2.01	3.3	0.0000186
	As Left	100.013	3.0			

Neck Calibration: No neck calibration was performed at this time.
Prover must be repainted glossy white per NIST HB 105-3 before next calibration.

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.

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.

All tolerances and specifications were evaluated according to NIST Handbook 105-3 (2010). Uncertainty calculations contain the components in NIST SOP 19 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 item identified in this report only.

CCE is the cubical coefficient of thermal expansion, and the reference temperature is 60 °F

Pete Whobbe

Metrologist

Reviewed by:

Benjamin FitzPatrick

Deputy Director



Receipt Date: April 1, 2016
Cal. Date: April 5, 2016
Report Date: April 5, 2016

Report No.: 335772
Serial No.: 12640
Barcode: 019910

Calibration Certificate

O'DAY EQUIPMENT
1301 40TH ST NW
FARGO, ND 58102-2813
Contact: NICOLE DUNCOMB
Phone: 701-282-9260
PO Number: NONE
SOP: 34
Technician ID: 11

Item(s) Submitted: 100 gallon LPG Prover
Manufacturer: Arrow Tank
Material: Mild Steel
Description: Zero Bottom
Condition: Fair
Temperature: 18.7 °C
Pressure: 741.8 mmHg
Relative Humidity: 36.1 %
Standard H₂O Temp. 8.3 °C
Artifact H₂O Temp.: 8.8 °C

Nominal Volume (gal)	Calibrated		<i>k</i>	U (in ³)	CCE (°F)
	Volume (gal)	Error (in ³)			
100	As Found (at 100 psig)	99.948 -12	2.02	5.3	0.0000186
	As Left (at 100 psig)	99.948 -12			

Neck Calibration: No neck calibration was performed 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. 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.

All tolerances and specifications were evaluated according to NIST Handbook 105-4 (2010). Uncertainty calculations contain the components in NIST SOP 21 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 item identified in this report only.

CCE is the cubical coefficient of thermal expansion, and the reference temperature is 60 °F.

Pete Whebbe

Metrologist

Reviewed by:

Benjamin FitzPatrick

Deputy Director



Receipt Date: April 1, 2016
 Cal. Date: April 5, 2016
 Report Date: April 5, 2016

Report No.: 335772
 Serial No.: 12640
 Barcode: 019910

Pressure Correction Chart

O'DAY EQUIPMENT
 1301 40TH ST NW
 FARGO, ND 58102-2813

Contact: NICOLE DUNCOMB
 Phone: 701-282-9260
 PO Number: NONE
 SOP: 34
 Technician ID: 11

Item(s) Submitted: 100 gallon LPG Prover
 Manufacturer: Arrow Tank
 Material: Mild Steel
 Description: Zero Bottom
 Condition: Fair
 Temperature: 18.7 °C
 Pressure: 741.8 mmHg
 Relative Humidity: 36.1 %

Pressure Gauge Reading (psig)	Corrected Volume (gal)
0	99.840
10	99.852
20	99.863
30	99.875
40	99.886
50	99.898
60	99.908
70	99.918
80	99.928
90	99.938
100	99.948
110	99.957
120	99.967
130	99.976
140	99.986
150	99.995
160	100.002
170	100.009
180	100.016
190	100.023
200	100.030

Pete Whebbe

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.

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		



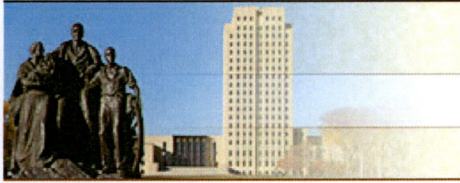
2016 to 2017

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

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

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

North Dakota

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

SECRETARY OF STATE NORTH DAKOTA

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O'DAY EQUIPMENT, LLC

Corporation Details

System ID: 22745300 **Phone:** (800) 654-6329
Type: LIMITED LIABILITY COMPANY
Status: Active & Good Standing
Original File Date: 12/12/2006 **Effective Date:** 12/12/2006
State of Origin: North Dakota

Nature of Business

OPERATE A PETROLEUM EQUIPMENT BUSINESS

Principal Office

1301 40TH ST NW PO BOX 2706 FARGO, ND 58108-2706

Registered Agent

D JAMES O'DAY
1301 40TH ST N
PO BOX 2706
FARGO, ND 58108-2706
Established Date: Dec 12, 2006

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.

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