



14305 SOUTHCROSS DRIVE #150
BURNSVILLE, MN 55306-7008
MN.GOV/COMMERCE/
651.539.1555 FAX 952.435.4040
AN EQUAL OPPORTUNITY EMPLOYER

Receipt Date: March 18, 2016
Cal. Date: March 23, 2016
Report Date: March 23, 2016

Report No.: 335712
Serial No.: 07-45256-07
Barcode: 202242

Calibration Certificate

O'DAY EQUIPMENT LLC
635 31ST ST SE
MINOT, ND 58701

Contact: AJ GRAVES
Phone: 701-356-8472
PO Number: NONE
SOP: 19
Technician ID: 11

Item(s) Submitted: 5 Gallon Prover
Manufacturer: Seraphin
Material: Stainless Steel
Description: No Bottom Zero
Condition: Good
Temperature: 19.1 °C
Pressure: 736.5 mmHg
Relative Humidity: 39.2 %
Standard H₂O Temp.: 17.2 °C
Artifact H₂O Temp.: 17.2 °C

Nominal		Calibrated			
Volume (gal)		Volume (gal)	Error (in ³)	k	U (in ³) CCE (°F)
5	As Found	5.0004	0.10	2.06	0.24 0.000265
	As Left	5.0004	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

Pete Whabbe

Pete J. Whabbe
Metrologist

Reviewed by:

Mark Nicollet

Mark Nicollet
Quality Manager





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Receipt Date: March 18, 2016
Cal. Date: March 23, 2016
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Report No.: 335713
Serial No.: 09-06131
Barcode: 202247

Calibration Certificate

O'DAY EQUIPMENT LLC
635 31ST ST SE
MINOT, ND 58701

Contact: AJ GRAVES
Phone: 701-356-8472
PO Number: NONE
SOP: 19
Technician ID: 11

Item(s) Submitted: 5 Gallon Measure
Manufacturer: Seraphin
Material: Stainless Steel
Description: Measure
Condition: Good
Temperature: 19.1 °C
Pressure: 736.5 mmHg
Relative Humidity: 39.2 %
Standard H₂O Temp.: 17.3 °C
Artifact H₂O Temp.: 17.3 °C

Nominal		Calibrated			
Volume (gal)		Volume (gal)	Error (in ³)	k	U (in ³) CCE (°F)
5	As Found	4.9991	-0.22	2.06	0.24 0.0000265
	As Left	4.9991	-0.22		

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

Pete Whebbe

Pete Whebbe
Metrologist

Reviewed by:

Mark Nicollet

Mark Nicollet
Quality Manager



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Receipt Date: March 18, 2016
Cal. Date: March 23, 2016
Report Date: March 23, 2016

Report No.: 335714
Serial No.: 09-06136
Barcode: 202243

Calibration Certificate

O'DAY EQUIPMENT LLC
635 31ST ST SE
MINOT, ND 58701

Contact: AJ GRAVES
Phone: 701-356-8472
PO Number: NONE
SOP: 19
Technician ID: 11

Item(s) Submitted: 5 Gallon Measure
Manufacturer: Seraphin
Material: Stainless Steel
Description: Measure
Condition: Good
Temperature: 19.1 °C
Pressure: 736.5 mmHg
Relative Humidity: 39.2 %
Standard H₂O Temp.: 17.5 °C
Artifact H₂O Temp.: 17.5 °C

Nominal		Calibrated				
Volume (gal)		Volume (gal)	Error (in ³)	<i>k</i>	U (in ³)	CCE (°F)
5	As Found	4.9974	-0.61	2.06	0.24	0.0000265
	As Left	4.9997	-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.

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Pete Whebbe

Metrologist

Reviewed by:

Mark Nicollet

Quality Manager



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Receipt Date: March 18, 2016
Cal. Date: March 24, 2016
Report Date: March 25, 2016

Report No.: 335715
Serial No.: 1
Barcode: 202467

Calibration Certificate

O'DAY EQUIPMENT LLC
635 31ST ST SE
MINOT, ND 58701
Contact: AJ GRAVES
Phone: 701-356-8472
PO Number: NONE
SOP: 19
Technician ID: 07

Item(s) Submitted: 5 Gallon Measure
Manufacturer: SERAPHIN
Material: Mild Steel
Type: Measure
Condition: Fair
Temperature: 19.1 °C
Pressure: 733.3 mmHg
Relative Humidity: 35.5 %
Standard H₂O Temp.: 14.6 °C
Artifact H₂O Temp.: 14.6 °C

Nominal		Calibrated			
Volume (gal)		Volume (gal)	Error (in ³)	k	U (in ³) CCE (°F)
5	As Found	4.9997	-0.08	2.06	0.24 0.0000186
	As Left	4.9997	-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.

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Mark Nicollet

Quality Manager

Reviewed by:

Pete Whebbe

Metrologist





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Receipt Date: March 18, 2016
Cal. Date: March 24, 2016
Report Date: March 25, 2016

Report No.: 335716
Serial No.: 40549
Barcode: 202248

Calibration Certificate

O'DAY EQUIPMENT LLC
635 31ST ST SE
MINOT, ND 58701

Contact: AJ GRAVES
Phone: 701-356-8472
PO Number: NONE
SOP: 19
Technician ID: 07

Item(s) Submitted: 5 Gallon Measure
Manufacturer: Seraphin
Material: Mild Steel
Type: Measure
Condition: Good
Temperature: 19.1 °C
Pressure: 733.3 mmHg
Relative Humidity: 35.3 %
Standard H₂O Temp.: 15.2 °C
Artifact H₂O Temp.: 15.3 °C

Nominal		Calibrated				
Volume (gal)		Volume (gal)	Error (in ³)	<i>k</i>	U (in ³)	CCE (°F)
5	As Found	5.0036	0.84	2.06	0.24	0.0000186
	As Left	5.0003	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.

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Mark Nicollet

Quality Manager

Reviewed by:

Pete Whebbe

Metrologist





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Receipt Date: March 18, 2016
Cal. Date: March 24, 2016
Report Date: March 25, 2016

Report No.: 335717
Serial No.: 11-88799
Barcode: 202244

Calibration Certificate

O'DAY EQUIPMENT LLC
635 31ST ST SE
MINOT, ND 58701
Contact: AJ GRAVES
Phone: 701-356-8472
PO Number: NONE
SOP: 19
Technician ID: 07

Item(s) Submitted: 5 Gallon Measure
Manufacturer: Seraphin
Material: Stainless Steel
Type: Measure
Condition: Good/Dirty
Temperature: 19.1 °C
Pressure: 733.3 mmHg
Relative Humidity: 35.3 %
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	4.9994	-0.14	2.06	0.24	0.0000265
	As Left	4.9994	-0.14			

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.

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Mark Nicollet

Quality Manager

Reviewed by:
Pete Whebbe

Metrologist



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Receipt Date: March 21, 2016
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Report Date: March 25, 2016

Report No.: 335718
Serial No.: 45401
Barcode: 202729

Calibration Certificate

O'DAY EQUIPMENT LLC
635 31ST ST SE
MINOT, ND 58701

Contact: AJ GRAVES
Phone: 701-356-8472
PO Number: NONE
SOP: 19
Technician ID: 07

Item(s) Submitted: 5 Gallon Measure
Manufacturer: Seraphin
Material: Mild Steel
Type: Measure
Condition: Fair/Dirty
Temperature: 19.1 °C
Pressure: 733.3 mmHg
Relative Humidity: 35.3 %
Standard H₂O Temp.: 12.5 °C
Artifact H₂O Temp.: 12.5 °C

Nominal		Calibrated				
Volume (gal)		Volume (gal)	Error (in ³)	<i>k</i>	U (in ³)	CCE (°F)
5	As Found	4.9991	-0.21	2.06	0.24	0.0000186
	As Left	4.9991	-0.21			

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.

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Mark Nicollet

Quality Manager

Reviewed by:

Pete Whebbe

Metrologist



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Receipt Date: March 18, 2016
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Report No.: 335719
Serial No.: 09-06135
Barcode: 202245

Calibration Certificate

O'DAY EQUIPMENT LLC
635 31ST ST SE
MINOT, ND 58701

Contact: AJ GRAVES
Phone: 701-356-8472
PO Number: NONE
SOP: 19
Technician ID: 07

Item(s) Submitted: 5 Gallon Measure
Manufacturer: Seraphin
Material: Stainless Steel
Type: Measure
Condition: Good
Temperature: 19.1 °C
Pressure: 733.3 mmHg
Relative Humidity: 35.3 %
Standard H₂O Temp.: 12.7 °C
Artifact H₂O Temp.: 12.8 °C

Nominal		Calibrated				
Volume (gal)		Volume (gal)	Error (in ³)	<i>k</i>	U (in ³)	CCE (°F)
5	As Found	4.9995	-0.11	2.06	0.24	0.0000265
	As Left	4.9995	-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.

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Mark Nicollet

Quality Manager

Reviewed by:

Pete Whebbe

Metrologist



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Receipt Date: March 18, 2016
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Report No.: 335720
Serial No.: 07-03144
Barcode: 202246

Calibration Certificate

O'DAY EQUIPMENT LLC
635 31ST ST SE
MINOT, ND 58701
Contact: AJ GRAVES
Phone: 701-356-8472
PO Number: NONE
SOP: 19
Technician ID: 07

Item(s) Submitted: 5 Gallon Measure
Manufacturer: Seraphin
Material: Stainless Steel
Type: Measure
Condition: Good/Dirty
Temperature: 19.1 °C
Pressure: 733.3 mmHg
Relative Humidity: 35.3 %
Standard H₂O Temp.: 12.8 °C
Artifact H₂O Temp.: 12.8 °C

Nominal		Calibrated				
Volume (gal)		Volume (gal)	Error (in ³)	<i>k</i>	U (in ³)	CCE (°F)
5	As Found	5.0021	0.49	2.06	0.24	0.0000265
	As Left	5.0006	0.14			

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.

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Mark Nicollet

Quality Manager

Reviewed by:
Pete Whebbe

Metrologist



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Receipt Date: March 18, 2016
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Report Date: March 25, 2016

Report No.: 335721
Serial No.: 42653
Barcode: 202970

Calibration Certificate

O'DAY EQUIPMENT LLC
635 31ST ST SE
MINOT, ND 58701

Contact: AJ GRAVES
Phone: 701-356-8472
PO Number: NONE
SOP: 19
Technician ID: 07

Item(s) Submitted: 5 Gallon Measure
Manufacturer: Seraphin
Material: Mild Steel
Type: Measure
Condition: Good
Temperature: 19.1 °C
Pressure: 733.3 mmHg
Relative Humidity: 35.3 %
Standard H₂O Temp.: 12.4 °C
Artifact H₂O Temp.: 12.5 °C

Nominal		Calibrated				
Volume (gal)		Volume (gal)	Error (in ³)	<i>k</i>	U (in ³)	CCE (°F)
5	As Found	4.9976	-0.55	2.06	0.24	0.0000186
	As Left	5.0003	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.

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Mark Nicollet

Quality Manager

Reviewed by:

Pete Whebbe

Metrologist



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Receipt Date: March 18, 2016
Cal. Date: March 24, 2016
Report Date: March 25, 2016

Report No.: 335722
Serial No.: 15-92443
Barcode: 202811

Calibration Certificate

O'DAY EQUIPMENT LLC
635 31ST ST SE
MINOT, ND 58701

Contact: AJ GRAVES
Phone: 701-356-8472
PO Number: NONE
SOP: 19
Technician ID: 07

Item(s) Submitted: 5 Gallon Measure
Manufacturer: Seraphin
Material: Stainless Steel
Type: Measure
Condition: Good/Dirty
Temperature: 19.1 °C
Pressure: 733.3 mmHg
Relative Humidity: 35.3 %
Standard H₂O Temp.: 15.0 °C
Artifact H₂O Temp.: 14.9 °C

Nominal Volume (gal)		Calibrated		k	U (in ³)	CCE (°F)
		Volume (gal)	Error (in ³)			
5	As Found	5.0005	0.11	2.06	0.24	0.0000265
	As Left	5.0005	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.

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Mark Nicollet

Quality Manager

Reviewed by:
Pete Whebbe

Metrologist



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Receipt Date: March 18, 2016
Cal. Date: March 24, 2016
Report Date: March 25, 2016

Report No.: 335723
Serial No.: 15-92450
Barcode: 202816

Calibration Certificate

O'DAY EQUIPMENT LLC
635 31ST ST SE
MINOT, ND 58701

Contact: AJ GRAVES
Phone: 701-356-8472
PO Number: NONE
SOP: 19
Technician ID: 07

Item(s) Submitted: 5 Gallon Measure
Manufacturer: Seraphin
Material: Stainless Steel
Type: Measure
Condition: Good
Temperature: 19.1 °C
Pressure: 733.3 mmHg
Relative Humidity: 35.3 %
Standard H₂O Temp.: 13.4 °C
Artifact H₂O Temp.: 13.4 °C

Nominal		Calibrated				
Volume (gal)		Volume (gal)	Error (in ³)	<i>k</i>	U (in ³)	CCE (°F)
5	As Found	4.9993	-0.16	2.06	0.24	0.0000265
	As Left	4.9993	-0.16			

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.

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Mark Nicollet

Quality Manager

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Pete Whebbe

Metrologist



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Receipt Date: March 18, 2016
Cal. Date: March 24, 2016
Report Date: March 25, 2016

Report No.: 335724
Serial No.: 15-92411
Barcode: 202817

Calibration Certificate

O'DAY EQUIPMENT LLC
635 31ST ST SE
MINOT, ND 58701

Contact: AJ GRAVES
Phone: 701-356-8472
PO Number: NONE
SOP: 19
Technician ID: 07

Item(s) Submitted: 5 Gallon Measure
Manufacturer: Seraphin
Material: Stainless-Steel
Type: Measure
Condition: Good
Temperature: 19.1 °C
Pressure: 733.3 mmHg
Relative Humidity: 35.3 %
Standard H₂O Temp.: 12.1 °C
Artifact H₂O Temp.: 12.1 °C

Nominal Volume (gal)		Calibrated		k	U (in ³) CCE (°F)	
		Volume (gal)	Error (in ³)			
5	As Found	5.0002	0.04	2.06	0.24	0.0000265
	As Left	5.0002	0.04			

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.

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Mark Nicollet

Quality Manager

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Pete Whebbe

Metrologist



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BURNSVILLE, MN 55306-7008
MN.GOV/COMMERCE/
651.539.1555 FAX 952.435.4040
AN EQUAL OPPORTUNITY EMPLOYER

Receipt Date: March 18, 2016
Test Date: March 22, 2016
Report Date: March 22, 2016

State Test No.: 335711
Serial No.: 041320840-0102
Barcode: 202317

Calibration Report

O'DAY EQUIPMENT LLC
635 31ST ST SE
MINOT, ND 58701
Contact: AJ Graves
Phone: 701-356-8472
PO Number: None
SOP: 33
Technician ID: 19

Item(s) Submitted: 100 Gallon Prover
Manufacturer: Westmor Fluid Solution
Material: Stainless Steel (304)
Description: Dry Bottom
Condition: Good
Temperature: 19.2 °C
Pressure: 728. mmHg
Relative Humidity: 42.7 %
Standard H₂O Temp.: 7.5 °C
Artifact H₂O Temp.: 7.6 °C

Nominal Volume (gal)		Tested			Coefficient of Expansion(°F)
		Volume (gal)	Error (in ³)	Uncertainty (in ³)	
100	As Found	99.971	-6.8	2.4	0.0000288
	As Left	100.009	2.1	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
Erik Alfvin
Metrologist

Reviewed by:
Mark Nicollet
Mark Nicollet
Quality Manager



14305 SOUTHCROSS DRIVE #150
BURNSVILLE, MN 55306-7008
MN.GOV/COMMERCE/
651.539.1555 FAX 952.435.4040
AN EQUAL OPPORTUNITY EMPLOYER

Receipt Date: March 18, 2016
Test Date: March 22, 2016
Report Date: March 22, 2016

State Test No.: 335710
Serial No.: 051320997-0103
Barcode: 202318

Calibration Report

O'DAY EQUIPMENT LLC
635 31ST ST SE
MINOT, MN 58701
Contact: AJ Graves
Phone: 701-356-8472
PO Number: None
SOP: 33
Technician ID: 19

Item(s) Submitted: 100 Gallon Prover
Manufacturer: Determan Brownie Inc.
Material: Stainless Steel (304)
Description: Dry Bottom
Condition: Good
Temperature: 19.3 °C
Pressure: 728.1 mmHg
Relative Humidity: 39.0 %
Standard H₂O Temp.: 7.6 °C
Artifact H₂O Temp.: 7.6 °C

Nominal Volume (gal)		Tested Volume (gal)	Error (in ³)	Uncertainty (in ³)	Coefficient of Expansion(/°F)
100	As Found	99.991	-2.1	2.4	0.0000288
	As Left	99.991	-2.1	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 Alfvén
Erik Alfvén
Metrologist

Reviewed by:
Mark Nicollet
Mark Nicollet
Quality Manager



14305 SOUTHCROSS DRIVE #150
BURNSVILLE, MN 55306-7008
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651.539.1555 FAX 952.435.4040
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Receipt Date: March 18, 2016
Cal. Date: March 23, 2016
Report Date: March 24, 2016

Report No.: 335709
Serial No.: 44753
Barcode: 202355

Calibration Certificate

O'DAY EQUIPMENT LLC
635 31ST ST SE
MINOT, ND 58701
Contact: AJ Graves
Phone: 701-356-8472
PO Number: None
SOP: 34
Technician ID: 19

Item(s) Submitted: 100 Gallon LPG Prover
Manufacturer: Arrow Tank
Material: Mild Steel
Description: Zero Bottom
Condition: Good
Temperature: 18.8 °C
Pressure: 736.8 mmHg
Relative Humidity: 39.2 %
Standard H₂O Temp. 8.7 °C
Artifact H₂O Temp.: 9.7 °C

Nominal		Calibrated				
Volume (gal)		Volume (gal)	Error (in ³)	<i>k</i>	U (in ³)	CCE (°F)
100	As Found (at 100 psig)	99.901	-22.8	2.02	5.3	0.0000186
	As Lett (at 100 psig)	100.015	3.5			

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.

Erik Alfvin

Metrologist

Reviewed by:
Mark Nicollet

Quality Manager

Receipt Date: March 18, 2016
Cal. Date: March 23, 2016
Report Date: March 24, 2016

Report No.: 335709
Serial No.: 44753
Barcode: 202355

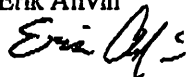
Pressure Correction Chart

O'DAY EQUIPMENT LLC
635 31ST ST SE
MINOT, ND 58701
Contact: AJ Graves
Phone: 701-356-8472
PO Number: None
SOP: 34
Technician ID: 19

Item(s) Submitted: 100 Gallon LPG Prover
Manufacturer: Arrow Tank
Material: Mild Steel
Description: Zero Bottom
Condition: Good
Temperature: 18.8 °C
Pressure: 736.8 mmHg
Relative Humidity: 39.2 %

Pressure Gauge Reading (psig)	Corrected Volume (gal)
0	99.870
10	99.888
20	99.907
30	99.925
40	99.944
50	99.962
60	99.973
70	99.983
80	99.994
90	100.004
100	100.015
110	100.024
120	100.033
130	100.042
140	100.051
150	100.060
160	100.069
170	100.078
180	100.087
190	100.096
200	100.105

Erik Alfvin



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		

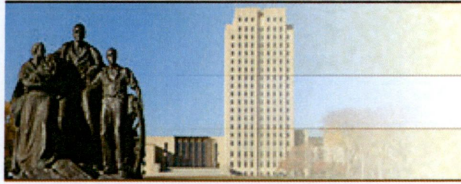


2016 to 2017

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



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

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
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