



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

Receipt Date: October 23, 2015
Test Date: October 23, 2015
Report Date: October 23, 2015

State Test No.: 334974
Serial No.: 03-18752-04
Barcode: 201316

Calibration Report

SERVICE OIL
1718 MAIN AVE E
WEST FARGO, ND 58078-2204
Contact: Dirk Lenthe
Phone: 701-277-1050
PO Number: None
SOP: 32
Technician ID: 19

Item(s) Submitted: 5 Gallon Prover
Manufacturer: Seraphin
Material: Stainless Steel
Equipment Number: None
Condition: Good
Temperature: 20.7 °C
Pressure: 737.2 mmHg
Relative Humidity: 41. %
Standard H₂O Temp.: 19.5 °C
Artifact H₂O Temp.: 19.5 °C

Nominal Volume (gal)		Error (in ³)	Volume at Zero Line (gal)	Uncertainty (in ³)	Coefficient of Expansion (1/°F)
5	As Found	0.34	5.0015	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 drain time of 30 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 NIST Technical Note 1297. The confidence interval is 95 %.

Results apply to item identified in this report only.

Erik Alfvin
Erik Alfvin
Metrologist

Reviewed by:
Mark Nicollet
Mark Nicollet
Quality Manager





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Receipt Date: October 23, 2015
Test Date: October 23, 2015
Report Date: October 23, 2015

State Test No.: 334975
Serial No.: 05-01851
Barcode: 202105

Calibration Report

SERVICE OIL
1718 MAIN AVE E
WEST FARGO, ND 58078-2204
Contact: Dirk Lenthe
Phone: 701-277-1050
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: 20.7 °C
Pressure: 737.2 mmHg
Relative Humidity: 41. %
Standard H₂O Temp.: 19.4 °C
Artifact H₂O Temp.: 19.5 °C

Nominal Volume (gal)		Error (in ³)	Volume at Zero Line (gal)	Uncertainty (in ³)	Coefficient of Expansion (°F)
5	As Found	0.23	5.0010	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 NIST Technical Note 1297. The confidence interval is 95 %.

Results apply to item identified in this report only.

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Metrologist

Reviewed by:

Mark Nicollet

Quality Manager



**MINNESOTA DEPARTMENT OF COMMERCE
WEIGHTS & MEASURES DIVISION**

Certificate of Authority to Place in Service

is granted to

DIRK LENTHE

Permit #0434

who meets the requirements for authority to place into commercial service in Minnesota the weighing and measuring devices listed below.

Authorization period is

October 15, 2015

through

October 15, 2016

Classifications:

MN GENERAL TEST

RETAIL PUMPS



Heidi Jones
Heidi Jones