



Receipt Date: June 23, 2016
Cal. Date: June 30, 2016
Report Date: June 30, 2016

Report No.: 336129
Serial No.: 00-13651-15
Barcode: 201325

Calibration Certificate

PETROLEUM CALIBRATION SERVICE

203 E HWY 61
ESKO, MN 55733

Contact: GENE LEWIS
Phone: 218-213-6556
PO Number: NONE
SOP: 19
Technician ID: 11

Item(s) Submitted: 5 Gallon Prover
Manufacturer: Seraphin
Material: Stainless Steel
Type: No Bottom Zero
Condition: Excellent
Temperature: 25.2 °C
Pressure: 736.1 mmHg
Relative Humidity: 43.3 %
Standard H₂O Temp.: 20.3 °C
Artifact H₂O Temp.: 20.4 °C

Nominal Volume (gal)		Calibrated Volume (gal)	Error (in ³)	<i>k</i>	U (in ³)	CCE (°F)
5	As Found	5.0027	0.62	2.06	0.24	0.0000265
	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 drain time of 30 seconds after cessation of full flow.

The vessel 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:

Mark Nicollet

Quality Manager



Receipt Date: June 23, 2016
Cal. Date: June 30, 2016
Report Date: June 30, 2016

Report No.: 336131
Serial No.: 49433-C
Barcode: 201324

Calibration Certificate

PETROLEUM CALIBRATION SERVICE
203 E HWY 61
ESKO, MN 55733
Contact: GENE LEWIS
Phone: 218-213-6556
PO Number: NONE
SOP: 19
Technician ID: 11

Item(s) Submitted: 5 Gallon Prover
Manufacturer: Seraphin
Material: Stainless Steel
Type: No Bottom Zero
Condition: Excellent
Temperature: 25.2 °C
Pressure: 736.1 mmHg
Relative Humidity: 43.3 %
Standard H₂O Temp.: 20.0 °C
Artifact H₂O Temp.: 20.2 °C

Nominal Volume (gal)		Calibrated Volume (gal)	Error (in ³)	<i>k</i>	U (in ³)	CCE (1/°F)
5	As Found	4.9999	-0.02	2.06	0.24	0.0000265
	As Left	4.9999	-0.02			

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 vessel 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

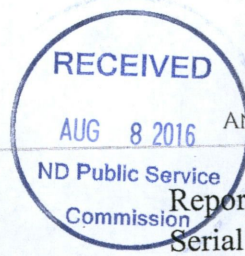
Reviewed by:

Mark Nicollet

Quality Manager

Pete Whebbe

Metrologist



Receipt Date: June 23, 2016
Cal. Date: June 30, 2016
Report Date: June 30, 2016

Report No.: 336130
Serial No.: 49433-A
Barcode: 201323

Calibration Certificate

PETROLEUM CALIBRATION SERVICE
203 E HWY 61
ESKO, MN 55733
Contact: GENE LEWIS
Phone: 218-213-6556
PO Number: NONE
SOP: 19
Technician ID: 11

Item(s) Submitted: 5 Gallon Prover
Manufacturer: Seraphin
Material: Stainless Steel
Type: No Bottom Zero
Condition: Excellent
Temperature: 25.2 °C
Pressure: 736.1 mmHg
Relative Humidity: 43.3 %
Standard H₂O Temp.: 19.6 °C
Artifact H₂O Temp.: 19.8 °C

Nominal Volume (gal)		Calibrated Volume (gal)	Error (in ³)	<i>k</i>	U (in ³)	CCE (°F)
5	As Found	5.0040	0.93	2.06:	0.24	0.0000265
	As Left	5.0002	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 drain time of 30 seconds after cessation of full flow.

The vessel 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:

Mark Nicollet

Quality Manager

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. Hockett".

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

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

North Dakota

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North Dakota State GovernmentNorth Dakota
LEGISLATURE

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PETROLEUM CALIBRATION SERVICE LLC

Corporation Details

System ID: 21146000**Phone:** (218) 213-6556**Type:** FOREIGN LIMITED LIABILITY COMPANY**Status:** Active & Good Standing**Original File Date:** 08/01/2005**Effective Date:** 08/01/2005**State of Origin:** Minnesota

Nature of Business

TEST & CALIBRATE RETAIL MOTOR FUEL DISPENSORS

Principal Office

203 E HIGHWAY 61 ESKO, MN 55733-9610

Registered Agent

BUSINESS FILINGS INCORPORATED

314 E THAYER AVE

BISMARCK, ND 58501-4018

Established Date: Dec 22, 2014

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