

TSP Calibration, Inc.

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Certificate of Calibration

Certificate No TSP-04182018-008

Gage ID PRO-39459 Gage S/N 39459 Description UT Thickness Gage Operating Procedure: OP-121 Unit of Meas. Inch Manufacturer Dakota Ultrasonics Cal. Date 4/18/2018 Next Due 10/18/2018 Cal. Freq. 6.00 Months Location Lab	Environmental Conditions Temperature 68 +/- 2 deg F Humidity 20-55% Approved Yes Customer Info. Pro Mag
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Certification Statement

TSP Calibration, Inc. calibration systems complies with the requirements of ISO 17025 and thus 9001-2008 and API-Q1. The equipment that is certified by this certificate has been calibrated by standards that have accuracy which is traceable to standards of the National Institute of Standards and Technology.

Findings

SO 6146 JOB 6672

Standard ID	0.100"	Uncertainty		Units		Type	V
Limited Use?	No	Minimum	0.098	Nominal	0.100	Maximum	0.102
Ref Type	5 Step Block	As Found	0.099	Accuracy	-0.001	Fail Before	No
		As Left	0.099	Accuracy	-0.001	Fail After	No
Gage ID of Standard	Ref-449809						
Std Due Date	4/10/2019	Gage S/N	449809	NIST No.	66030		
Standard ID	0.200"	Uncertainty		Units		Type	V
Limited Use?	No	Minimum	0.198	Nominal	0.200	Maximum	0.202
Ref Type	5 Step Block	As Found	0.199	Accuracy	-0.001	Fail Before	No
		As Left	0.199	Accuracy	-0.001	Fail After	No
Gage ID of Standard	Ref-449809						
Std Due Date	4/10/2019	Gage S/N	449809	NIST No.	66030		
Standard ID	0.300"	Uncertainty		Units		Type	V
Limited Use?	No	Minimum	0.298	Nominal	0.300	Maximum	0.302

Ref Type	5 Step Block	As Found	0.300	Accuracy	0.000	Fail Before	No
		As Left	0.300	Accuracy	0.000	Fail After	No

Gage ID of Standard Ref-449809

Std Due Date 4/10/2019 Gage S/N 449809 NIST No. 66030

Standard ID	0.400"	Uncertainty		Units		Type	V
Limited Use?	No	Minimum	0.398	Nominal	0.400	Maximum	0.402
Ref Type	5 Step Block	As Found	0.400	Accuracy	0.000	Fail Before	No
		As Left	0.400	Accuracy	0.000	Fail After	No

Gage ID of Standard Ref-449809

Std Due Date 4/10/2019 Gage S/N 449809 NIST No. 66030

Standard ID	0.500 "	Uncertainty		Units		Type	V
Limited Use?	No	Minimum	0.498	Nominal	0.500	Maximum	0.502
Ref Type	5 Step Block	As Found	0.500	Accuracy	0.000	Fail Before	No
		As Left	0.500	Accuracy	0.000	Fail After	No

Gage ID of Standard Ref-449809

Std Due Date 4/10/2019 Gage S/N 449809 NIST No. 66030

Calibrated By Taichi Daimo Signature  Date: 4/18/2018