



**Proficiency Testing, Inc.**  
Providing confidence in your measurements

## Participant Report

**Laboratory:** ABC Laboratories

**Test Description:** Thread plug gage test

**PTI Test Identification:** TPG-101

**Lab code:** 51720.00

**Date of participation:** xx/xx/xx

Thank you for your participation in this test offered by Proficiency Testing, Inc.

Unlike other proficiency test providers, our process is designed to determine Assigned Values for each parameter of the artifacts we have provided to you for this test. Therefore, we are able to determine an accurate Normalized Error (En) at this time.

The data below indicates whether your laboratory had outliers for any parameters measured. If outliers are listed, you should investigate possible cause and perform corrective action as necessary. You can then resubmit your results for a second review prior to returning the artifact to PTI. Complete results will be available upon fulfillment of contractual agreement in the test description.

### **Proficiency Testing, Inc.**

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Normalized Error Analysis

Gage ID 101  
4-40 UNC 2B

	Reference Value	Your Value	Reference MU $\mu$ in	Lab MU $\mu$ in	En	Pass / Outlier
Go PD Front	0.09588	0.09595	55	60	0.92	Pass
Go PD Back	0.09588	0.09593	55	60	0.68	Pass
Go Major Diameter	0.11214	0.11215	52	50	0.14	Pass
NoGo PD Front	0.09900	0.09900	55	60	0.00	Pass
NoGo PD Back	0.09900	0.09905	55	60	0.00	Pass
NoGo Major Diameter	0.10973	0.10975	52	50	0.28	Pass



Normalized Error Analysis

Gage ID 117

7/16-20 UNC 2B

	Reference Value	Your Value	Reference MU $\mu$ in	Lab MU $\mu$ in	En	Pass / Outlier
Go PD Front	0.40529	0.40525	89	61	-0.37	Pass
Go PD Back	0.40529	0.40525	89	61	-0.37	Pass
Go Major Diameter	0.43775	0.43771	23	45	-0.79	Pass
NoGo PD Front	0.41015	0.41025	89	61	0.93	Pass
NoGo PD Back	0.41015	0.41023	89	61	0.74	Pass
NoGo Major Diameter	0.43191	0.43195	23	45	0.79	Pass



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Normalized Error Analysis

Gage ID 115

1 5/8-12 UN-2B Pcecial

	Reference Value	Your Value	Reference MU $\mu$ in	Lab MU $\mu$ in	En	Pass / Outlier
Go PD Front	1.57471	1.57465	81	62	-0.56	Pass
Go PD Back	1.57469	1.57464	81	62	-0.66	Pass
Go Major Diameter	1.62887	1.62880	78	59	-0.72	Pass