



American Association for Laboratory Accreditation

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

KERR LAKESIDE INC.
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MECHANICAL

Valid To: February 28, 2010

Certificate Number: 0159.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on fasteners:

<u>Test</u>	<u>Test Methods</u>
Tension Testing Axial/Wedge Tensile Strength Proof Load (Ext. Threaded)	ASTM A370 (Sec.A3.1-3.3, A4.1-4.6); F606, F606M; SAE J429
Hardness (Rockwell and Superficial – A, B, C, N)	ASTM A370 (Sec 17, A3.3), E18, F606, F606M; SAE J429
Microhardness (Knoop)	ASTM A574, E3, E384, F835, F912
Metallographic Evaluation: Carburization/Decarburization Case Depth	ASTM A574, F835, F912 ASTM A574, F835, F912
Coating Thickness	ASTM B499, B633



Dimensional Testing:

ANSI/ASME: B1.1, B1.2, B1.3M,
B18.3; FED-STD-H28

<u>Parameter</u>	<u>Measurement Technique</u>	<u>Range</u>	<u>Best Uncertainty*(±)</u>
Linear	Micrometer / Optical comparator	(0 to 1) in (.0001 res.)	0.0002 in
	Micrometer / Optical comparator	(0 to 2) in (.0001 res.)	0.0002 in
	Micrometer	(0 to 12) in (.001 res.)	0.002 in
	Caliper, digital	(0 to 6) in (.0005 res.)	0.001 in
	Caliper, dial	(0 to 6) in (.001 res.)	0.0002 in
	Caliper	(0 to 12) in (.001 res.)	0.002 in
	Depth micrometer	(0 to 3) in (.001 res.)	0.00015 in
	Dial indicator	(0 to 0.004) in (.00005 res.)	0.0001 in
	Dial indicator	(0 to 0.030) in (.0001 res.)	0.0002 in
	Dial indicator	(0 to 0.060) in (.00025 res.)	0.0005 in
		(0 to 0.075) in (.0005 res.)	0.001 in
		(0 to 1) in (.001 res.)	0.002 in
Threads	Thread gage, System 22	#8 thru 2 in. (.00025 res.)	0.0005 in
Angle	Optical comparator	0 to 360 (1 min. res.)	2 mins.
Radius	Optical comparator	(0.005 to 0.700) in (.005 res.)	0.010 in

*"Best Uncertainty" is the smallest uncertainty of measurement that a laboratory can achieve within its scope of accreditation when performing more or less routine inspections of nearly ideal measurement standards with nearly ideal measuring equipment. Best uncertainties represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually using a coverage factor of $k = 2$. The best uncertainty of a specific test performed by the laboratory may be greater than the best uncertainty due to the behavior of the customer's test piece, to the environment (if the dimensional testing is performed in the field) and to influences from the circumstances of the specific test.

res. = instrument resolution

