CERTIFICATE OF ACCREDITATION

ANSI-ASQ National Accreditation Board

500 Montgomery Street, Suite 625, Alexandria, VA 22314, 877-344-3044

This is to certify that

McCann Equipment Ltd.
925, ave Newton, #107
Quebec, QC G1P 4M2

has been assessed by ANAB
and meets the requirements of international standard

ISO/IEC 17025:2005

while demonstrating technical competence in the field of

CALIBRATION

Refer to the accompanying Scope of Accreditation for information regarding the types of calibrations to which this accreditation applies.

L2097.06-1
Certificate Number

ANAB Approval

Certificate Valid: 05/03/2018-06/29/2019
Version No. 002 Issued: 05/03/2018

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).

ANSI-ASQ National Accreditation Board

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

McCann Equipment Ltd.

925, ave Newton, #107
Quebec, QC G1P 4M2
Kathy McCann-Quart 418-877-7718

CALIBRATION

Valid to: **June 29, 2019** Certificate Number: **L2097.06-1**

Mass

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Adjustable Hand Torque Wrenches	(0.6 to 100) lbf·in (8 to 50) lbf·ft (50 to 250) lbf·ft (250 to 750) lbf·ft (750 to 2 000) lbf·ft	0.79 % of applied load 0.71 % of applied load 0.7 % of applied load 0.71 % of applied load 1.1 % of applied load	ISO 6789:2003 Electronic Transducer and Display Unit with ISO loader per McCann procedures
Dial Hand Torque Wrenches	(0.6 to 15) lbf·in (15 to 600) lbf·in (50 to 250) lbf·ft (250 to 600) lbf·ft (600 to 2 000) lbf·ft	0.66 % of applied load 0.64 % of applied load 0.59 % of applied load 0.78 % of applied load 0.84 % of applied load	
Digital Hand Torque Wrenches	(0.2 to 250) lbf·ft (250 to 600) lbf·ft	0.68 % of applied load 0.61 % of applied load	
Torque Limiting Screwdrivers	(0.6 to 10) lbf·in (10 to 80) lbf·in (80 to 130) lbf·in	1.2 % of applied load 0.82 % of applied load 0.88 % of applied load	
Pneumatic Torque Tools	(0.4 to 5 000) lbf·ft	1.1 % of applied load	Electronic Transducer and Display Unit per McCann procedures
Hydraulic Torque Tools	(127 to 5 000) lbf·ft	0.79 % of applied load	
Hand Torque Multipliers	(127 to 5 000) lbf·ft	2.2 % of applied load	
Electronic Torque Tools (Clutch Type)	(1.5 to 110) lbf·in	1.1 % of applied load	
Electronically Controlled Torque Tools	(200 to 4 500) lbf·ft	0.87 % of applied load	Electronic Transducer and Display Unit per McCann procedures

Mass

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Torque Tester	(1.5 to 750) lbf·ft	0.53 % of applied load	ISO Loader with Electronic Transducer and Display Unit per McCann procedures
Hydraulic Pressure Gauge	(3 to 16 000) psig	0.23 % of reading	Dead Weight Tester per McCann Procedures
Pneumatic Pressure Gauge	(0.1 to 300) psig	0.38 % of reading	Crystal Digital Tester per per McCann Procedures

Calibration and Measurement Capability (CMC) is expressed in terms of the measurement parameter, measurement range, expanded uncertainty of measurement and reference standard, method, and/or equipment. The expanded uncertainty of measurement is expressed as the standard uncertainty of the measurement multiplied by a coverage factor of 2 (k=2), corresponding to a confidence level of approximately 95%.

Notes:

1. On-site calibration service is available for this parameter, since on-site conditions are typically more variable than those in the laboratory, larger measurement uncertainties are expected on-site than what is reported on the accredited scope
2. This scope is formatted as part of a single document including Certificate of Accreditation No. L2097.06-1.

Vice President