



CERTIFICATE OF ACCREDITATION

In terms of section 22(2) (b) of the Accreditation for Conformity Assessment, Calibration and Good Laboratory Practice Act, 2006 (Act 19 of 2006), read with sections 23(1), (2) and (3) of the said Act, I hereby certify that:-

AFS CALIBRATION LOGISTICS (PTY) LTD
Co. Reg. No.: 2020/868089/07
TORQUE CALIBRATION LABORATORY

Accreditation Number: **CAL 092-08-00**

is a South African National Accreditation System accredited Calibration Laboratory provided that all SANAS conditions and requirements are complied with

This certificate is valid as per the scope as stated in the accompanying scope of accreditation Annexure "A", bearing the above accreditation number for

TORQUE METROLOGY

The facility is accredited in accordance with the recognised International Standard

ISO/IEC 17025:2017

The accreditation demonstrates technical competency for a defined scope and the operation of a laboratory quality management system

While this certificate remains valid, the Accredited Facility named above is authorised to use the relevant SANAS accreditation symbol to issue facility reports and/or certificates

A handwritten signature in black ink, appearing to read 'M Phaloane', is written over a horizontal line.

Mr M Phaloane
Acting Chief Executive Officer

Effective Date: 19 July 2024
Certificate Expires: 07 April 2026



ANNEXURE A
SCOPE OF ACCREDITATION
TORQUE METROLOGY

Accreditation Number: CAL 092-08-00

Permanent Address of Laboratory: AFS Calibration Logistics (Pty) Ltd Torque Calibration Laboratory 1071 Terblanche Street Villieria, Pretoria 0186 Postal Address: 1071 Terblanche Street Villieria, Pretoria 0186 Tel: (082) 929-4148 Cell: (082) 929-4148 E-mail: lab@afsmi.co.za		Technical Signatory: Mr TL Leeuwner Nominated Representative: Mr TL Leeuwner Issue No.: 02 Date of Issue: 19 July 2024 Expiry Date: 07 April 2026		
ITEM	MEASURED QUANTITY OR TYPE OF GAUGE OR INSTRUMENT	RANGE OF MEASURED QUANTITY	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)	METHOD / PROCEDURE
5.0	TORQUE			
5.1.1	Torque Measuring Devices			
5.1.1.1	Torque Transducers	1,0 N•m to 10 N•m 10 N•m to 25 N•m 25 N•m to 40 N•m 40 N•m to 200 N•m 200 N•m to 500 N•m	$\pm 4,5$ % of reading $\pm 4,0$ % of reading $\pm 0,8$ % of reading $\pm 0,4$ % of reading $\pm 0,3$ % of reading	Calibration by direct comparison with a reference torque transducer.
5.1.2	Torque Generating Devices			
5.1.2.1	Torque Wrenches	1,0 N•m to 400 N•m 400 N•m to 1 000 N•m 1 000 N•m to 2 000 N•m	$\pm 0,5$ % of reading $\pm 1,0$ % of reading $\pm 1,5$ % reading	Calibration using a standard torque transducer/s & indicator in a torque rig.
5.1.2.2	Torque Screwdrivers	0,5 N•m to 10 N•m 10 N•m to 20 N•m	$\pm 3,5$ % of reading $\pm 5,5$ % of reading	
5.1.2.5	Electronic Torque Spindles	1,0 N•m to 600 N•m	$\pm 3,0$ % of reading	Direct comparison against a reference torque transducer.
5.1.3	Torque Angle Measuring Devices			
5.1.3.1	Torque Transducers	0° to 360°	1,0°	Direct comparison against a reference torque transducer / angle encoder.
5.1.4	Torque Angle, Generating Devices			
5.1.4.1	Torque Tools	0° to 360°	1,0°	Direct comparison against a reference torque transducer / angle encoder.
6	On site calibration for items 5.1.1, 5.1.2, 5.1.3 and 5.1.4			

Original Date of Accreditation: 08 April 2021

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The CMC, expressed as an expanded uncertainty of measurement, is stated as the standard uncertainty of measurement multiplied by a coverage factor $k = 2$, corresponding to a confidence level of approximately 95%

ISSUED BY THE SOUTH AFRICAN NATIONAL ACCREDITATION SYSTEM


Accreditation Manager