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South African National Accreditation System

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:-

DM LABORATORY SUPPLIES CC

Co. Reg. No.: 1996/023347/23

TRADING AS

LABTRONIC

FLUID DYNAMICS CALIBRATION LABORATORY

Accreditation Number: **CAL 024-22-00**

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

FLUID DYNAMICS 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

Mr M Phaloane
Acting Chief Executive Officer

Effective Date: 15 April 2024
Certificate Expires: 18 June 2027

ANNEXURE A

SCOPE OF ACCREDITATION

FLUID DYNAMICS METROLOGY

Accreditation Number: CAL 024-22-00

Permanent Address of Laboratory:
DM Laboratory Supplies CC; t/a Labtronic
Fluid Dynamics Calibration Laboratory
9 Paulus Street
Kamma Park
Port Elizabeth
6070

Postal Address:
Postnet Suite 111
Private Bag X0002
Sunridge Park
6008

Tel: (041) 379-4620
Fax: 086 556 4027
E-mail: labtronic@mweb.co.za

Technical Signatories: Mr D van Tonder, Mr SJ van tonder

Nominated Representative: Mrs M van Tonder

Issue No.: 13
Date of Issue: 15 April 2024
Expiry Date: 18 June 2027

ITEM	MEASURED QUANTITY OR TYPE OF GAUGE OR INSTRUMENT	RANGE OF MEASURED QUANTITY	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	METHOD / PROCEDURE
2	**DENSITY**			
2.2	**Density of Fluids**			
2.2.2	Liquid Density of Standard Fluids	0,500 to 1,200 g/cm³	0,2 %	Calibration by weighing in a standard Pycnometer.
2.2.3	Hydrometer - Liquid Density	0,500 to 1,200 g/cm³	1,0 %	Calibration by suspension in standard liquid/s
6	**VISCOSITY**			
6.1	**Certified Newtonian Reference Fluids**			
6.1.1	Silicon and Hydrocarbon Oils Kinematic viscosity Dynamic viscosity	1 to 100 000 mm²/s 0,8 to 100 000 mPa.s	2,5 % 2,5 %	Calibration using a calibrated rotational viscometer or capillary viscometer/s
6.2	**Viscometers**			
6.2.2	Rotational Viscometers Kinematic Viscosity Dynamic Viscosity (15 to 30 °C)	1 to 100 000 mm²/s 0,8 to 100 000 mPa.s	2,5 % 2,5 %	Calibration by measurement of a range of certified Newtonian reference fluids at a fixed temperature/s.
6.2.3	Viscosity cups (Ford, ISO, Zahn, etc.)	Efflux time 10 to 120 sec	0,25 sec + 3 %	Calibration by the measurement of the Efflux time of a Newtonian reference fluid at a specified temperature.

Original Date of Accreditation: 01 October 2003

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