



TransCal Technologies LLP

Measurement to Perfection...

106, West Park Road (Between Sample and Margosa Road)
10th Cross, Malleshwaram, Bengaluru - 560 003



CC-2231



CAL CERT NO : TSC/23-24/20427.4

ULR.NO : CC2231 24000032066F

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CALIBRATION CERTIFICATE

Customer Name & Add. : M/s. Testing Machine Service And Calibration Centre
"ANIMA" Apartment, 1/1, Harisava Road, Barrackpore, Kolkata, West Bengal, IND
700122

SRF No. : TSC/23-24/20427 Dated : 13 Mar 2024 Cert. Issued Date : 15 Mar 2024
ULF.NO CC223124000032066F

Calibration Certificate Number	Calibrated Date	Calibration Due Date	Page Number
TSC/23-24/20427-4	14 Mar 2024	13 Mar 2025	1 of 2

Detail of device under calibration		Transcal ID	
Nomenclature : Digital Tachometer		No. of Pages : 2	
Make : Line Seiki		Cal Procedure No. : TSC/CAU/611	
Model/Range : TM-5010		DUC Received : 13 Mar 2024	
SI No. : 197-0062V		DUC Condition on Receipt : Satisfactory	
ID No. : -		Cal At : Mechanical Lab	
Calibrated By : Chetan - Calibration Engineer			

Environmental Conditions : Temperature in °C : 23.2 Humidity in RH % : 52.1

Standards used :

SI No	Nomenclature	Make	Model	SI No/ID No.	Certificate No.	Validity
1	Digital Tachometer	Testo	47	2027096	SANS/FT/01(7.8/01)	13 Dec 2024

Note :

- This Calibration Certificate relates only to the above DUC & Reported results are valid at the time of and under the stated conditions of measurements.
- Partial Publication/ reproduction of this Certificate in any form is not permitted without the written consent of TransCal.
- Errors if any, in this Certificate shall be brought to notice within 45 days from the date of this Certificate.
- Measurement Uncertainty reported is at approximately 95 % confidence level with k=2; Units of Measurement results & Measurement Uncertainty are same as that of range selected - Unless otherwise indicated.
- Calibration of the DUC is traceable to National/International Standards.
- Corrections/erasing invalidate the Calibration Certificate.
- Units as otherwise specified the Measurement Data reported is 'As Found' Without any adju. ment.
- The Decision Rule: No Conformance statement (Pass/Fail/Accept/Reject) provided

Range : 10 to 8000 rpm
L.C. : 0.1 rpm
Acc : 0.05% + 1 digit (Claimed as per customer request)

Results : Contact Type

Sl. No.	Standard Average Reading in rpm	DUC Average Reading in rpm	Observed Deviation in rpm	Measurement Uncertainty ± in %	Remarks
1	6.00	6.1	0.10	5.12	Pass
2	100.0	100.1	0.1	0.40	Pass
3	500.2	500.5	0.3	0.24	Pass
4	1000	1000.5	0.5	0.24	Pass
5	3000	3000.8	0.8	0.24	Pass
6	4002	4003.1	1.1	0.24	Pass
7	6002	6003.6	1.6	0.11	Pass
8	8000	8001.9	1.9	0.11	Pass

Range : 10 to 100000 rpm
L.C. : 0.1 rpm
Acc : 0.05% + 1 digit (Claimed as per customer request)

Results : Photo Contact Type

Sl. No.	Standard Average Reading in rpm	DUC Average Reading in rpm	Observed Deviation in rpm	Measurement Uncertainty ± in %	Remarks
1	6.03	6.1	0.07	5.14	Pass
2	100.2	100.1	-0.1	0.42	Pass
3	500.4	500.2	-0.2	0.31	Pass
4	1004	1003.6	-0.4	0.27	Pass
5	5000	4998.4	-1.6	0.27	Pass
6	10003	10002.1	-0.9	0.09	Pass
7	20008	20005.8	-2.2	0.09	Pass
8	30016	30014.5	-1.5	0.083	Pass
9	50033	50031.1	-1.9	0.083	Pass
10	60065	60052.8	-12.2	0.083	Pass
11	89987	89984.3	-2.7	0.063	Pass

Conclusion :

*) Calibration done as per SANS TR - 45 - 1

*** End of Certificate ***



Reviewed & Authorised By

Manjunath D J
(Lab Incharge)



Reviewed & Authorised By

Manjunath D J
(Lab Incharge)